# CENTRAL PROVINCES DISTRICT GAZETTEERS

## NAGPUR DISTRICT.

VOLUME A
DESCRIPTIVE.

EDITED BY R. V. RUSSELL, I.C.S.



PRINTED AT THE TIMES PRESS.





## PREFATORY NOTE.

The extant Settlement Reports on the Nagpur District are those of Mr. A. B. Ross (1869) and Mr. R. H Craddock (1899) A large part of the Gazetteer has simply been reproduced from Mr Craddock's Report, including the description of the District, the notice of climate, several notices of castes, a part of the chapter on Agriculture and that on Land Revenue Administration with numerous other quota-The description of the Bhonsla dynasty and of the occurrences during the Mutiny is taken from Mr. M Low's interesting article on the Nagpur District in the Central Provinces Gazetieer of 1871; and some details have been added from the collection of papers called 'Sitabaldi,' printed under the direction of Mr. J. O Miller, when Chief Commissioner. The chapter on General Administration, the article on Nagpur City and a note on the Material Condition of the People were furnished by Mr F. Dewai, lately Deputy Commissioner of the District, and constitute an interesting epitome of its recent rapid development. A number of the Gazetteer articles, including those on Saoner, Katol, Kalmeshwar, Mohpa, Mowar, Narkher, all the articles on rivers, and those on tabsils, together with the notice of Wild Animals, were contributed by Mr D. G Mitchell, Assistant Commissioner, and the section on Manufactures by Mr. B Dé, Assistant Commissioner The sections on Geology and Minerals were written by Mr. L. L Fermor of the Geological Survey , that on Communications by Captain Oldham, R.E , and the excellent article on Kamptee by Lieut.-Col F. A C. Kieyer, for many years Cantonment Magistrate The articles on Ramtek, Nagardhan and Mansar were written from notes drawn up by Mr. Hira Lal. Assistant Gazetteer Superintendent. The photographs of Sitabaldi, Ambajheri tank and Government House were given by Mr. I. K Batten

Nagpur, R V. R. 18th March 1908.



# NAGPUR DISTRICT GAZETTEER.

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List of Deputy Commissioners who have held charge of the Nagpur District, with the dates of their periods of office.

		Period			
Name of Deputy Commiss	ionei.		From	То	
Major J. K Spence			Aug. 1854	16-11-59	
Major R T. Snow			17-11-59	Dec. 1861	
LtCol. I. G. Balmaın		1	Jan. 1862	25-6-62	
Captain J. H. Ashburner			26-6-62	8-9-63	
Major J B. Dennys			9-9-63	July 1864	
M Low, Esq			Not	available.	
J. L Lock, Esq.			28-3-66	28-6-66	
		(	28-8-67	2-10-67	
Major E. M. Playfair		- 1	7-3-68	1-5-69	
Major T. H Newmarch			1-7-68	19-2-69	
Major F. Fenton			Nov. 1868	Apl. 1871	
Captain M. P. Ricketts			28-4-72	17-3-73	
Major T. H. Newmarch			18-3-73	15-12-73	
Major C, B, Lucie Smith	٠	(	5-12-73	5-9-74	
major C, B. Lucie Silitii		- [	15-11-74	27-3-75	
Captain J. W. MacDougall			5-9-74	14-11-74	
Major C. B. Lucie Smith			15-11-74	27-3-75	
Captain J. W. MacDougall	•••	(	18-6-75	9-7-75	
Captain J. W. MacDougan		- 1	1-3-76	10-3-76	
Col. H. F. Waddington		)			
Col. F. L. Magniac		Ş	Not	available.	
Col. J. B. Dennys		)	N J		
F. Venning, Esq			23-7-76	14-10-78	
Captain J. W. MacDougall			15-10-78	3-1-79	
F. Venning, Esq			4-1-79	2-3-79	
Major M. M. Bowie	•••		23-3-79	30-7-81	

List of Deputy Commissioners who have held charge of the Nagpur District, etc.—(concld).

Name of Deputy Commissioner			ļ	Period.		
			From	То		
			1	1-8-81	7-12-81	
Major T. A. Scott		•	1	20-1-82	5-4-82	
Col. H J. Lugard				6-4-82	5-5-87	
Col. C. H Grace				25-4-87	13-4-90	
			(	14-4-90	17-11-90	
Col. T A. Scott	••	•••	1	29-1-91	19-6-92	
A. D. Younghusband	Esq,	I.C.S		June 1892	Sep. 1892	
Col. T A. Scott		•••	••	Oct. 1892	20-3-93	
A. D. Younghusband	, Esq.,	1.C.S.		21-3-93	25-6-93	
W. A. Nedham, Esq.				26-7-93	30-3-97	
E. R. K Blenkinsop,	Esq., I	.C.S.		1-4-97	25-11-97	
I. A. C. Skinner, Esq	, I.C.	S.		26-11-97	14-7-98	
H. F. Mayes, Esq., I	CS			115-7-98	20-11-99	
A. L. Saunders, Esq.	I.C.S.	***		21-11-99	10-3-01	
F. S A Slocock, Esq., I.C.S			11-3-01	2-2-02		
J. Walker, Esq., I.C.S			3-2-02	1-3-02		
		•••	1-3-02	7-4-02		
J. Walker, Esq., I.C.S				8-4-02	31-7-02	
E. A. De Brett, Esq , I.C.S			1-8-02	16-10-02		
J. Walker, Esq., I.C.	S., C.I	E.		17-10-02	10-6-04	
A. E. Nelson, Esq., 1	C.S.			11-6-04	8-7-04	
J. Walker, Esq., I.C.	S., C.1	E.		9-7-04	4-8-04	
W N. Maw, Esq., I.	C.S.	•••	•••	5-8-04	28-10-04	
J. Walker, Esq., I.C.	S., C.I.	E.		29-10-04	19-4-05	
J. A. Bathurst, Esq., I.C.S			•••	20-4-05	3-11-05	
J. Walker, Esq., I.C.S., C.I.E			4-11-05	13-3-06		
F. Dewar, Esq , I C.			•••	14-3-06	1-5-07	
J. A. Bathurst, Esq.,	I C S.	•••	•••	2-5-07	18-7-07	
A. B. Napier, Esq., I	.c.s.	•••		19-7-07	30-4-08	
Rao Bahadur Ramkris	hna Ra	oii Par	dit	1-5-08		

picturesque, and there is some striking scenery on the Pench river. The old Gond fort of Bhugarh stands on this range. The only large block of Government forest in the District is situated on these hills between the Kanhān and Bāwanthai. The cultivated villages are scattered here and there in the river-villeys, and the country is very pleasing and well-wooded, open glides alternating with patches of forest and clearings of cultivation. Mahua trees and tanks abound, and the Gond villages, with their clean little streets and neat back-gardens, have a fai more picture-que appearance than the monotonous mud walls of the more imposing houses in the rich villeges of the plain country.

A few miles to the south of the main Saipura range are two minor lines of hills to the west and east of the Pench Those to the west he between Bhingarh and Paiseoni, terminating in the peak of Tekari (1069 feet). East of the Pench are the Mansar hills, both these and the western range being now denuded of trees, and, after a gap of a few mil 6, come the well-known Ramtek hills, rising to 1400 feet at Ramtek. This range has retained its wooded character only owin to the intervention of Government. Three miles east of Ramtek the Sur river has forced a passage through the hills, but beyond it they continue as the Ambagarh range of Bhandara. The Ramtek hills terminate on the west in the form of a horse-shoe curve, its inner sides enclosing the beautiful and sacred tank of Ambala, one of the most charming pieces of scenery in the District. The temple hill at the extrem ty of the ranges, rising 600 feet sheer above the level of the plain, is at once a landmark to the surrounding country and a vantage ground from which the great Waingangā plain may be seen spread out below, its irregularities of surface softened into smoothness by the height from which one looks down upon it.

3. The second main hill tract extends along the southeast of the District from Khargarh on the Wardhā river, where there

are some fine talls, to the junction of Wardha and Chanda with Nagpur They separate the valley of the Kar from that of the lam up to Kondhali and further south-east form the watershed between the latter river and the Bor Near Bori they become the Kauras plateau and here terminate to afford a passage for the Wardha river, continuing afterwards south-eastwards and dividing the valley of the Nand from the Wainganga plain. West of the Wunna the range is mostly well covered with picturesque valleys and ravines, among which are narrow strips of rich well-irrigated land of great fernisty. But to the east towards Umrer the range is dwarfed and uninteresting, with low bare hills, grass-covered and boulder-strewn, except where, overlooking the Nand valley, some excellent teak is grown. The third main range runs noithwards through the Katol tabsil from Kondhalı to Kelod, separating the Wardha and Wainganga valleys. The highest part of it is at Pilkapar. The hills are generally clear of trees, but there is a great deal of cultivation scattered among them, and here and there are found upland plateaus covered with stones, and with soil of varying depth, suitable only for the production of rain crops. Connected with this range is the hill system which divides the Wunna valley from the Wainganga plain, and bisects the Nagpur tahsil. These hills in part striking eastward from the third range, and in front projecting from the Kauras plateau are low and bare. To them belong those dreary stone-covered downs which shut in the station of Nagnur on the west.

4. The Wardha valley proper includes but a small proportion of the District, consisting of The Wardha and it the rich Amner pargana in the north-west of Katol But its tribu-

taries drain the bulk of the Katol tahsil, a halt of Nägpur and a small part of Umrer. The principal of these are the Bor, the Wunna, the Jam and the Kar. The Bor rises in the hills near Bazargaon and rushes down a winding and rocky



KANHAN RIVER BRIDGE, KAMPTEE

channel between the Kondhalt uplands and the Kauras plateau, passing into Wardha to join the Wunna. Its narrow valley is very terrile and the high well-wooded cliffs on either side render it the wildest and most beautiful spot in the whole of the District. The Wunna rises near the hill of Mahadagarh in the Pilkapai range and flows along the northern base of the Kaulas plateau past Hingna and Bori where it is crossed by the Great Indian Peninsula Railway. It leaves the District at Ashta. The small Kushna liver ioins at at Born and it was in this stream that the Reverend Stephen Hislor was drowned in 1862 while endeavouring to cross it in flood. The lam rises among the hills south of Kondhall and flowing northwards into the centre of the Kātol tahsīl, takes a westerly turn past Kātol and joins the Wardha at Jalalkhera The Kar rises in the same range. but flows directly south-west, separating the Wardha and Nagonii Districts till it joins the Wardha river at Khargarh. the traiunction point of the two Districts with Berar. The Nand flows across a small strip in the south of the District and joins the Winna beyond the border of Wardha

5 The eastern two-thirds of the District belong to the drainage system of the Wainganga tributaries.

The Kanhan and its and except for the northern range of the Saipui as consist of an undulating

plain of cultivation, broken only by isolated hills and by the hollows and depressions marking the course of the innumerable streams, which traverse its surface and feed the larger rivers. The chief rivers of this tract are the Pench and Kanhan, both of which flow down from the Satpura range in the Chhindwara District, and meet at Kamptee where they are also joined by the Kollar. The upper reaches of the Pench among the hills and jungles north of Bhugarh afford some pleasing views. The Kanhan, entering the District near Baregaon, takes a south-easterly course past Khāpa to Kamptee, where it receives the Pench and Kollār and is crossed by two bridges. In its subsequent course it marks the boundary

of the Rämtek tabiil, and after receiving the Nag river neathe hills of Bhiukund, finally empties itself into the War gonga at Gondpipri in Bhandira. The Koilar rises in the northeast corner of the Katol tabiil, and after pissing through the rocky country of Lohgarh in the Pilkapar range, emerges into the fertile plann of Saoner and separates the Nägpur from the Rämtek tabiil until its place as a boundary river is taken by the Kanhān. Its bed is generally rocky. At Palansaongi it receives the Chandrabhäga, which brings in the deilinage of the Kalmeshwai plain. It is bridged at Dahegaon, where it is crossed by the road from Nägpur to Chhindwara. The doab of Patansaongi on the narrow strip of land enclosed between the Koilar and the Kanhān, are the most ferthe and highy cultivated portions of the Ramban, are

from the first and highy cultivated portions of the Ramtek tahsil.

The only other rivers of importance are those draining the eastern half of the Ramtek tahsil, the Bawanthari, Sur and

Gaotala-Sānd. The Bawanthari only passes through the extreme north-east of the District, but it drains the country to the north of Chorbaoli and east of the Seoni road. The Sor, rising in the hills west of the Seoni road, follows a most erratic course, and after cutting its way through a marrow gorge in the Rāmtele range, flows eastward past Aroli and Kodāmendhi into Bhandāra, where it joins the Wainganga. The Sar is remarkable for the shallowness of its bed, the level character of the land immediately on its margin, and the fertile properties of this land in producing sugarcane and garden crops. The Gaotala-Sānd issues from the Rāmtels tank and joins the Kanhān at the southeast of the Rāmtels tank and or the hill of Sitap-hār

7. Most of the large rivers, where they flow through
plain country, are characteristics
of the rivers.

in flood, but in the hot weather they

<sup>1</sup> Land enclosed between two rivers.

are mere rivulets, with here and there deep pools where the bed is rocky and hollows among the rocks have been formed by the action of the stream. The wide wastes of and which are exposed to the sun's rays during the hot weather months seem in the case of the larger rivers to neutralise the cooling effects of the small streaks of water in the centre of the hed, and the influence on the country around of these rivers, though of course very great, is not directly discernible except in the rugged ravines with short scrub which mark their banks. But their tributaries, the numerous shallow streams with a fringe of vegetation on either side, or winding amidst sindi bans or woods of date palm, exercise a more patently beneficial effect on the surrounding lands, which are generally fertile and are kept moist all the year round. Such streams are however only to be found in the most level plains, or in deep valleys among the hills. Over most of the great wheat tract of Umrer, where the more marked undulations of the country cause the water to be carried rapidly away, are deep water-courses absolutely dry during half the year, with bare banks devoid of all vegetation. These become small torrents after each heavy fall of rain, and the fields in their neighbourhood are scoured out of all recognition, despoiled of their soils, and speedily rendered unfit for cultivation

8. 'The ordinary resident of the civil station will not be scenery.1 'inclined to concede much recognition to the scenery of Nagpur. The 'waste of dreary downs which hem in the city on the west, or confront him life travels to Umrer, though forming the happy 'hunting-ground of the Nagpur pig-sticker when he does not 'wish to go fai afield, present but little charm to the ordinary resident. They obstruct his vision at all times, and 'deprive him of sleep on the hot weather nights by reason of the heat which radiates from their barren sides. But if he

<sup>&</sup>lt;sup>1</sup> Nagpur Settlement Report, para. 15.

'likes to tour out into the surrounding country, he will find 'much to charm him Let him go to Boil and ride up the 'valley of the little river Krishna to Takalghat, and into 'Kanholi He will find himself among wood-fringed streams and amphitheatres of hills. Let him then ascend the 'Kauras plateau by the steep winding path from Kanholi. 'and turn his steps down to the Bor valley at Aregaon through the ravine of Mohgaon, and he will be amply 'rewarded for his trouble. He may fancy himself in some 'remote highland glen rather than within twenty miles of the desolate Nagpur ridge lands. And so also if he follows the valleys of the Jam or Kar, or explores the upper reaches of the Pench, he will be forced to admit that the ' Nagpur country is not the dreary monotony which he had 'imagined. Or again, he may visit the tanks of Bazargaon. 'Kelod, or Dongartal, each reflecting on its surface the 'setting of hills amidst which it nestles I need not again 'mention Ramtek, the beauties of which everyone who lives 'in Na. pur has heard of, if he has not seen.'

g. The elevation of the plain portion of the District is from

goo to 1000 feet. Very few levels

except those of the railway stations

are available for the open country. Nägpur post office is 1025 feet above the sea and the Itwari bazar 983 feet. Sitábaldi hill is 1125 feet high. Kamptee is 1019 feet or practically the same as Nägpur, Bori 865 feet and Dighorf 918. In Umrer tahsil Umrer is 956 feet and Bhiwāpur 852. In the Kātot tahsil only the heights of Pilkāpār (1899 feet) and Khurkī (1997 feet) are known, but the general level is probably a little nigher than Nägpur. This is probably also the case with the Rämtek tahsil, but the only elevations of which information is available are those of the northern hills. Nägdeo is 1931 feet high, Khāpa 1916, Bakāri 1882, Nägalwarī 1739 and Tekstri 1699. Thārsa railway station has an elevation of 948 feet.



GEOLOGY

9

#### GEOLOGY

#### (L. L. FERMOR).

10. The neighbourhood of Nagpur is one of the classical geological areas of India Between the years 1850 and 1864 its geology, minerals and fossils successively received attention from Voysey, Jenkins, Malcolmson, Hislop, Owen, Rupert Jones, A. Murray and Sir C. F. Bunbury. In 1872 the late Dr. W. T. Blanford's paper entitled 'Description of the Geology of Nagpurt and its neighbourhood' was published. In this will be found a bibliography of the papers previously written about the geology of financial street.

The area coalt with by Blanford and the previous writers is mainly the belt stretching for a few miles on each side of the junction between the Deccan Trap formation and the metaniorphic and crystalline rocks. The main stretch of the litter rocks, forming the eastern portion of the District, was practically untouched until 1909 when I started to examine the manganese-ore deposits of this area. The results of my work have been summarised in the annual reports of the work of the Geological Survey of India for 1903-1904, and 1905, and in a paper by myself entitled 'Manganese in India' read before the Mining and Geological Institute of India in 1906.

Other papers dealing with this District that have been published in the Records of the Geological Survey of India are the following.—

- W. T Blanford, 'Coal near Nagpur', I, p. 26 (1868).
- (2) F. R. Mallet, 'On Rhodonite, with Braunite, from near Năgpur, Central Piovinces', XII, p. 73 (1879).

<sup>&</sup>lt;sup>3</sup>Memoirs Geol. Sur., Ind., IX, pp 205-330, with a geological map.

<sup>2</sup>T. H Holland, Records Geol Sur., Ind., XXXII, p 145, (1905), XXXV, p. 39 (1907).

<sup>\*</sup>Transactions Min Geol. Inst., Ind., I, pp 69-131, X (1906)

- (3) M. Neumayr, 'The Intertrappean beds in the Deccan and the Laramie group in Western North America', XVII, p. 87 (1884).
- (4) R Lydekker, 'Note on certain Vertebrate Remains from the Nagpur District', XXIII, p. 20 (1890)
- (5) L. L. Fermor, 'Manganese Otes', XXXI, p. 47 (1904).
- (6) L. L. Fermor, 'An unusual occurrence of Common Salt', XXXI, p. 237 (1904).
- (7) T. H. Holland, 'Review of the Mineral Production of India during the years 1858 to 1903', XXXII, p. 58 (1905).
- (8) P N Datta, 'Notes on the Geology of parts of the Valley of the Kanhan River in the Nazpur and Chfundwara Districts, Central Provinces', XXXIII, p. 221 (1006.)

In the following account of the geology of the District, all except the potton dealing with the metamorphic and crystalline tocks is based on Blanford's paper in the Memoirs of the Geological Survey already cited, the remainder being founded on my own observations.

Roughly speaking, the Distinct can be divided into two main areas, namely the country to the west of Nagpur occupied by the Deccan Trap formation and the country to the east of Nagpur occupied by the metamorphic and crystalline series, the two other formations, the Lametas and the Gondwanas, are found only along the junction of the trap and crystallines. B'anford says:—

- 'The town of Nägpur stands upon the eastern edge of the undulating trap country, the cantonment and civil station of Sitabaldi being, for the most part, built upon the trap itself. The country to the west does not rise into hills of any great height, though it is interspersed with low ranges, and both these and the valleys between are
  - 'covered with black soil, much mixed with stones.

GEOLOGY. 11

' . . . . Southward the country is similar to that to the west.

- 'To the south-east, east, and north-east the surface is,
  'for the most part, a plain covered with the alluvial
  - 'deposits of the Kani and its tributaries.'

To the east this plain extends as far as the eastern boundary of Nagpur, but in the north-eastern corner of the District the country becomes very hilly and rather wild, this being the area where the crystallines rise to form hills and are seen to the best advantage. The general level of the Nagpur plain is about 500 to 1000 feet. In the north-eastern coiner of the District some of the hills reach nearly 2000 feet.

List of formations. Soil, observed in this District are the following:-

- (I) Recent.
- (2) Deccan Trap and Intertrappeans
- (3.) Lameta.
- (4.) Gondwānas -
  - (a) Kāmthi group.
  - (b) Tälcher group.
- (5) Archæans (Metamorphic and Crystalline series).

Recent.—In the Archæan area of this District the rocks are often hidden beneath a considerable thickness of allivial soil, deposited by the tributaries of the Kanhān and the Wainganga In fact, to the east of Kamthi along a strip of country stretching for some miles on either side of the Bengal-Nāgur Railway, exposures of rock are rare In the trappean areas the soil is usually the black cotton soil known as regân, with kankar, which is also found in the soils on the Archæan areas.

ta. A little more than half of the whole District area is covered by the spread of basaltic and dolentic Lavas known to geologists as the Deccan Trap. As usual,

there is a considerable variety among the beds of this formation, some of the layer's being dense and compact, and
others amygdaloidal and more frable. In the streams draining from the Deccan. Frap. area the usual agates, pa-pers,
and quartz crystals are doubtless to be found. In addition
to the main area of this formation, there are second outliers
to the north-west of Bhurgach in the northern parts of the
District, whilst the southern end of the tongue of trap
separating the valleys of the Pench and Kanlan in
Chhindwara just crosses the border into Nagnui. The part
kulowa as the Dongartal tract, lying to the north
Chorbaoli, has not jet been carefully examined geologically,
but it is possible that there are some more trap outliers
in this area.

The lavers of treshwater sedimentary rock, usually known as intertrappeans, interbedded with the igneous lava-flows of the Deccan Trap, abound to the west of Nagpur They vary from a few inches in thickness up to about 5 feet. Blanford notices several occurrences of these rocks, namely at Dhapewara, between Bokhara and Mahuuhara, at Takli, at Sitabaldi, and near Telinkheri The character of these rocks is very variable; they may be calcareous, aigillaceous, cherty, or composed of trap detritus. From some of the exposures in the Nagpur District, large numbers of fossils have been collected The most famous locality is Takli, The collections made by Hislop, Hunter, and their friends included bones, probably reptilian, remains of a freshwater tortoise, fish-scales, coleoptera, entomostracans and land and freshwater mollusca The latter include the following genera ---

Bulimus, Melania, Limnæa, Succinea, Paludina, Physa and Valvata.

Among the plant remains Hunter enumerates:—Fruits and seeds, about 50 species; exogenous and endogenous leaves and stems, some of the latter being 6 feet in girth; Roots; and Chara.

GEOLOGY

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13. The Lameta oi Infratrappean rocks are also a freshwater formation. They are of irregular occurience, lying immediately beneath the trap, and resung

unconformably on the underlying tock, whether Gondwana or They are very frequently absent, so that the Deccan Trap rests directly on the Gondwanas or Archaeans They are always of small thickness, 25 feet being about the greatest recorded thickness. In composition the rock varies from a sandy limestone to a calcareous sandstone or a proper sandstone, whilst it has in some places been silicified with the formation of chert, and at times takes the form of a clay. A Baludina was found by Hislop at Nagpur, but it cannot be considered certain that it was really derived from the Lameta formation Amongst the localities at which this formation has been detected, mention may be made of Kelod and Sitabaldi hill; and, further south than Nagpur, of patches west of Adval and at Ketapur, whilst a very large spread of these rocks, some three to four miles wide, is situated immediately to the west of Umrer. Lametas have also been found fringing the trap outliers in the north-west corner of the District

14. The Gondwana rocks have been divided into two
groups in this area, the Kamthist
and the Talchers

The Kimth: grmp.—This is a group of the Gondwana rocks to which Blantord gave the name of Kamthi, after the place where they are so well developed Blanford says:—
'The Kamthi beds, on the other hand, are composed of 'grits, sometimes so hard as to be largely quarred for 'millstones, and at other times soft and frequently feru-'gimous These are often intersected by bands, in which the 'quartz, etc., are cemented together by peroxide of iron 'The group also contains sandstones of 'various kinds,

Named after the town of Kamplee, which is spelt after the

amongst which fine-grained slightly micaceous beds, white in colour, with blotches and irreg dia steaks of red, are abundant; and the fine hom geneous argillaceous rock, which, for want of a batter name, I have called compact shale, yellow below the surface, but becoming deep red when acposed. The last bed is very chiracteristic. So far as my examination extende I, not a trace of carbon could be found, blue and black shales, coal, and clay ironstone 'are all wanting.'

The Kämthis occupy a stretch of country starting at Kelod on the north-west, and running south-east to Kamptze This is the line of the eastern boundary of the formation supposed by Blanford to be a fault. The western boundary is the irregular edge of the Decen Trap formation; and the most southern portion of this outcrop is near Bokhāra and some 4 miles north of Nāgpur. The Kāmthis do not crop out over the whole of this area, being largely obscured by alluvium. At Silewāra, about 5 miles north-west of Kamptee, there is a low range of fulls composed of these rocks.

In addition to the main outcrop of the group noticed above, there are two comparatively large inhers in the trap area to the west.

One of these lies to the north-east of Bazāigaon, and is some nine miles long by four broad. The rocks here consist of a con-id-rable thickness of conglomerate, composed of white quartz pebbles set in a matrix of grit, and resting upon beds similar to those of the main area of Kamthi rocks noticed above. Sparingly interstratified with this conglomerate is a fine red argillaceous sandstone. Blanford thinks that this conglomerate series is a higher portion of the Kamthi group.

The second of these inhers is at Chorkheri, about 34 miles north-west of Nagpur. It is about four miles long and three broad, and is composed of the ordinary type of Kamthis.

The thickness of the Kamthis has not been determined, but is thought to be at least 5000 feet The fossil plants of the Kämthis comprise Phylletheca undica, Verlebraria undica, Pecopleris, Gangamopleris, Angiopteralium, Macrotemopleris (2 species), Anggerathiopsis, and 7 species of Glassopteris.

From a consideration of the fossis Blanford thinks that the Kämthis are to be correlated with the upper portions of the Damudas of Bengal, namely the Ranganj group and the ironstone shales, but on account of the lithological differences between the Kämthis and the rocks of these two groups it is better to keep the Kämthis separate.

The best localities for fossils in the Kāmthis are probably the stone quarties at Silewara and Kamptee.

The Tilcher group — Blandford has noted two occurrences of rocks that are probably to be assigned to the Talcher group of Bengal and Orrsa. One of these is castof Bickhara and west of Koradi. In addition to some clays and sandstones, the fine silty shales, breaking up into minute flakes, and considered to be characterisue of the Talchers, are much the Talchers, are much to the talchers, composed of metamorphic rocks of sandstone-quartizte and innestone from the Vindiyans, and of slate of unknown origin. The other occurrence is at Kodadongri, north of Pātansaongri, but it is not so certain that it is of Talcher age.

15. About one-hall of the District is covered by the

Archæen Rocks Metamorphic and Crystalline

Series.

Archæan series, comprising a considerable variety of rocks. They may be divided into the most ancient gneisses; the gneisses and schilts

formed by the metamorphism of the most ancient sediments, known in other parts of India as the Dharwars; and probably plutonic granites of later age than the Dharwars. In this District, all these rocks have been so metamorphosed that it is a matter of extreme difficulty distinguish them one from the other, and they may be most conveniently grouped together as the metamorphic and crystalline series. To a large extent, they are very

similar to the Archean tocks of the Kanhan valley in the Chhindwara District, which I have described in a paper published in the Records of the Geological Survey of India. Volume XXXIII, pages 150-220, (1006); and practically all that has been said there may be taken as applicable to the Archaean rocks of the Nagpur District These consist of typical biotitic gneisses, quartz-pyroxene-gneisses, calciphyres, crystalline limestones, quartzites, mica-schists, hornblende-schists, hematitic schists, pegmatites, and, lastly, the manganiterous rocks. The manganiferous rocks, which are of the utmost importance on account of their relation to the manganese-ore deposits of the District, are really the extremely metamorphosed equivalents of the Chilpi Ghāt series of the Bălăghat District, the term Chilpi being only a local name for rocks that are in all probability the equivalents of the Dharwars of Southern India. To this manganiferous portion of the Dharwars I have given the name of the gondite series, after the tribe of aborigines known as the Gonds, who form such an important portion of the population of the manganese-bearing zone of the Central Provinces Typical gondite is a rock composed entirely of quartz and the manganese-garnet spessartite. Amongst the rocks of the gondite series are to be found many rare and interesting minerals, some of the species new to science. The new species that have been found in this District are blanfordite. a beautiful manganese-pyroxene from Kācharwāhi and Rāmdongri and vredenburgue, a strongly magnetic manganeve-ore found at Beldongri Particulars as to the manganese-ore deposits will be found in the section dealing with the minerals of the District. Of the other minerals found in the manganiferous rocks, thodonite and predmontite deserve mention. A very fine exposure of crystalline limestones containing piedmontite nodules and grains is to be seen in the Pench river at Gnogra (or Gokula), about two miles north-east of Pärseoni.



SAGO PALMS, TELINKHERI GARDENS

BOTANY, 17

#### BOTANY.

16. The plains in this District are under cultivation and are usually of a park like appearance Botany. owing to the scattered individuals or groves of tamatind, mango, mahua and other fruit trees, The courses of the streams are fringed with lines and clumps of date-palm, and the most common tree of the open country is the babul (Acacia arabica) The hills that separate the various plains and valleys are at times bare except for a few grasses and stumpy shrubs, such as Flueggea, Phyllanthus and the like, or are clothed with a sparse jungle of which Boswellan is the principal constituent with little or no undergrowth or grass The forests are mainly situated on a large block on the Satpura hills to the north-east, while smaller isolated patches are dotted on those extending along the southwestern border The forest growth values with the nature of the soil, say (Terminalia tomentosa), achar (Buchanania latifolia) and tenda (Diospyros tomentosa), being characteristic on the heavy soils, teak on good well drained slopes, sālai (Boswellia serrata) on the steep hillsides and ridges, and satinwood on the sandy levels. Mixed with these are Anogeissus latifolia, Adina cordifolia, Butea frondosa and other similar trees. The scrub growth consists of shrubs such as Woodfordia, Antidesma, Cleistanthus, Grewia, Nyctanthes, with stunted Diospyros and other trees

WILD ANIMALS AND BIRDS.

(D. G. MITCHELL.)

17. At one time the District was famous for its big game, will danimals. One of the most popular stations. It is not twenty years since a bison was shot on the Kaniptee rifle range. But the clearance of the forests, combined with indiscriminate methods of slaughter of the native hunters, have iendered Nagpui probably the worst District in the 'Province for shooting, though during the last two or three years the rules enforced for the preservation of game have tended to produce some improvement.

Of the larger carnivors the tiger may frequently be found in the Pench valley and among the hills on the north of the District, but the sportsman can never set out assured of the success of his expedition Stray tigers have been reported from Veltur in the Umrer tahsil and Saonga Lohaia in Katol, but neither of these places are regular tiger-haunts. The small panther is quite common throughout the District. but the large variety is rare and only found in the forest reserves of Ramtek. In the cold weather of 1007 no fewer than four panthers infested the small village of Thaturwara in Katol, and one of them attacked a man, Nappur panther is a mean village thief who hangs around the basts or village site, and picks up goats. puppy dogs, and such-like, and he frequently meets with a fitting death from the cudgels of the aggrieved villagers. Hyenas are fairly common, especially where there are patches of forest near scattered villages. They steal kids and calves, and have been known to snatch children boldly out of the village street. The cultivator dislikes the hvena quite as much as the panther, and does not hesitate to ascribe his ravages to the latter animal if there is a sportsman in the neighbourhood. Wolves have been seen occasional-Iv along the Pench valley, but they never attack man, and there is no record of any having been shot. Wild dogs sometimes visit the hills of the north Jackals abound in every pari of the District, and foxes are common; both occasionally lend a little excitement to a morning's march The jungle cat may be found anywhere among rocky woodlands and is a frequent and sinister attendant on peafowl.

The common black bear may frequently be met with along the upper seaches of the Pench, where he finds plenty of shade and moisture, and is occasionally seen in Velturjungle and in the reserves round Kondhali, where there are many mahual troes. Pig abound everywhere, to the great detriment of the crops. The villager of this District does not know the Gond device of trapping them, and his clumsy muzzle-loader

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which he keeps ostensibly for crop protection is of very little service against the pig's tough hide The Nagpur country is generally unsuited to the hoghunter, and the open land round Sindi is now the only really suitable tract for the enjoyment of the spoit The old established Hunt Club, which has its headquarters at Nagpur, usually meets across the border in Wardha Hare are met with in all parts, but are not numerous

Among the deel and antelope the most common is the black-buck. A few years ago even this persistent animal was almost killed out, but recently its numbers have increased and small herds may now be seen in almost any part of the country. During the opens season they are usually to be found among the crops, but in the monsoon they seek firmer ground among the stony uplands. Their homs seldom exceed twenty unches, and twenty-three inches is probably the record of recent years. Nilgan are occasionally seen in the forests of Kondhali and Saonga Lohara. A few sambhar roam in the Pench valley forests, and there are some in the Kattol reserves, but they are difficult to locate. Chinkan a are lairly common in the Kattol tahvil, but the four-horned antelope and the spotted deer are very rare

18 Game birds occur in tair variety all over the District,
but good shooting can only be had

on a few tanks in the rice country. With the exception of the button quail and the cotton teal, all the game birds are migratory. The scarcity of land birds is largely due to the numerous wandering gangs of Pardhis, who decoy and snare them in great numbers. In one of their methods the Pärdhi selects a field where he knows there are some quail, and ensconces himself behind a brushwood screen. He imitates the call of the cock quail with astonishing accuracy, and as the belligerent little cocks come up to investigate they are neatly netted and transferred alive to wickerwork cages. Of the land birds the button quail, the rain quail, the rock and sand grouse,

and the common and painted partialge occu throughout the District, but the last mentioned is rare. Of the
water buds the jack and painted singe, whisting and cotton
teal, and the red-headed and crested pochard ducks are
common on most of the tanks, especially round Ramtek and
Uniter The blue-winged teal and the Gadwall duck are
occasionally found. The Brahminy duck visits most of
the bigger streams, and can usually be seen in the beds of
the Watdha and Kanhān.

Peafowl frequent most of the jungles, though never in numbers; spui and jungle flowl are found in the north. The great bustard seems to be finding its way to the District again, and though fai from common, may be seen in almost any part, even within a mile or two of Nagpui. The florican is very raise. The demoisaelle crane and the adrag crane sometimes come to the larger tanks, but they are not regular visitors. A large flock of demoiselle crane was recently seen flying over Nagpui. The king curlew or black this is fairly common, and the common curlew abundant. The blue rock pigeon, usually so abundant, is not often seen in Nagpuir, and the green pigeon occurs only in small flocks, frequenting pipal and banyan trees.

19. During the 15 years ending 1905 only four persons were on an average killed annually by wild animals and 36 persons ded from snake-bite. The average

number of cattle killed annually was 118, mainly by tigers and panthers. The returns show that during the same period 2 tigers, 21 panthers, 2 bears and 2 volves were annually destroyed.

# RAINFALL AND CLIMATE.

20. The rainfall of the District is registered at each of the Statistics of rainfall. It is also established on the Ambā-iheri reservoit. The average fall for the 40 years ending 1506-07 at each rain-gauge station was:—Magpur 453 inches,

Umrer 46 inches, Ramtek 48 inches and Katol 39 inches The mean average for the District during the same period was 45 inches. Though the rainfall in the Katol tahsil is on the average the lightest it is also the most regular and so far as past experience goes this area is the most secure Kātol is the best wooded and most hilly of the four tabsils it the northern forest tract of Ramtek, where the rainfall is the heaviest, be excluded. The rainfall is lightest in the west of the District (the cotton ruler country) and heaviest in the east (the wheat and rice tract) as the Wainganga is approached. The highest District average was 64 inches in 1887-88, and the lightest 16 inches in 1800-00 The highest rainfall recorded at one station was 814 inches at Ramtek in 1800-or and the lowest 8 inches at Umrer in 1868-60. The highest and lowest figures at Nagpur are 76% inches in 1883-84 and 14 inches in 1890-00 respectively During the forty years ending 1906-07 the rainfall of the District exceeded so inches in twelve years and was less than 40 inches in nine years. At Nagpur it was above so inches in 18 years and below 40 inches in 12 years The following figures show the distribution of sain at Nagpur to the neasest half inch, June o inches, July 13 inches, August 10 inches, September 81 inches, October 2 inches The average for November is 60 cents. for the three months of the cold weather one inch and II cents, and during the three months of the hot weather one inch and 20 cents.

21 In only two years, 1868-69 and 1899-00, out of the last Variations in rainfall. forty, have severe failures of the regular monsoon rains been experienced. But it constantly happens that the monsoon is late or very weak at the outset, so that the June rain is deficient, and inconveniently long breaks in july and August are of occasional occurrence. But the damage done by such breaks is generally not irreparable and the crops revive if good rain follows. September rain has never entirely

failed, but has been very short in several years, is 1870, 1856, 1895, 1896 and 1899. October rain is very precurious and local, and has failed entirely in ten years out of the last forty, while in twelve other years the fails have been very light or badly distributed. In six years excessive rain has characterised this month. If the rainfall is satisfactory up to the end of September a dry October is of little import November rain is not required unless. October and the latter part of September have been dry. In twenty-five years out of the last forty November has had no rain

22 The 'most critical period of the year is the quarter from September to November The chimatic conditions of this period make or mar the autumn harvest.

and exert a great influence on the success of the spring crops. A considerable fall is essential in September with breaks of clear weather, the fall of the last week of September being especially beneficial. The cold weather rains are as a rule advantageous to the spring crops of the District but they must be light and well distributed. The rainfall of the hot weather months is the least important, though some showers at this period are of use by softening the ground and thus facilitating early ploughing. Rain frequently falls during every month in the year, during the hot and cold season as a rule only in showers, but sometimes accompanied with violent storms. Hail falls occasionally in January, February and the early part of March, sometimes in very large stones. doing much damage to the spring crops. In the hot weather light showers of rain may be accompanied by duststorms of considerable severity. The agriculturist of this District has much to contend with in vicissitudes of climate, yet it rarely happens that the season is consistently or persistently unfavourable. The deficiency of rain in one month is made up by the fall of another and a break partially repairs the damage of a heavy rainfall.

<sup>1</sup> From paragraph 72 of Mr Craddock's Settlement Report.

23 An observatory was established at Nagpur in 1869
Temperature and Climate.

An observatory was established at Nagpur in 1869
at an elevation of 1025 feet. The average maximum and minimum

temperatures are 84° and 56° in January, 109° and 82° in May and 88° and 75° in July, the absolute maximum being 950 in January, nearly 1180 in May and 1050 in July, and the absolute minimum 410 in January, 67° in May and 70° in July The maximum temperature recorded was 117 7° on 20th May 1883 and the lowest 40.6° on 9th January 1899 The climate of the District is mild and dry, salubrious and distinctly conducive to long life. It enjoys the reputation of being one of the hottest places in India, and during April and May the heat is excessive, but the hot weather, owing to the great dryness of the atmosphere, is not unpleasant. The monsoon months are however not nearly so sultry as is the case in most plain Districts of India and during this period the average temperature in the shade is about 80° Though the cold weather is as a rule of short duration, the climate during the period from the middle of November to the end of February is extremely pleasant, In this District the latter part of the cold weather is the most healthy season, while the end of the ramy season is the most unhealthy Both in the cold and hot weathers the skies seldom remain cloudless for very long together, and during cloudy days the temperature rises and the weather becomes close In the cold weather considerable damage is done to the flowering crops by these clouds and during the hot months they render the nights, usually remarkable for their coolness, most oppressive Save for the two months of the hot weather (from the middle of April to the middle of June) when the heat is intense and one month (September 15th to October 15th) when the atmosphere becomes steamy and the moist heat is most trying, the climate of Nagpur is very hearable

<sup>&</sup>lt;sup>3</sup> The remainder of this notice is reproduced from para 69 of Mr. Craddock's Seitlement Report.

### CHAPTER II

## HISTORY AND ARCHÆOLOGY.

## HISTORY

24 According to tradition Nagpur was included in the kingdom of Ajodhya when the divine Legendary period, Rāma ruled over it. The Rāmāvana recounts how he traversed the forest of Dandaka, extending from the lumna to the Godavaii on his way to the hermitage of Sutikshna at Ramtek. 'Then1 the Aiyan invaders were 'represented throughout these Central Forests by a few ' isolated hermits, who could not even perform their simple ' devotions in freedom from the mockety of the mischievous 'savages among whom they dwelt. The picture of their 'sufferings, given in the Ramayana, would be almost ' pathetic if it were not ludicious. These shapeless and 'ill-looking monsters testify their abominable character by 'various ciuel and terrific displays These base-born wretches 'implicate the hermits in impure practices, and perpetrate 'the greatest outrages. Changing their shapes and hiding 'in the thickets adjoining the hermitages, these frightful beings delight in terrifying the devotees. They cast away 'the sacrificial ladles and vessels, they pollute the cooked ' oblations, and utterly defile the offerings with blood. These ' faithless creatures inject flightful sounds into the ears of ' the faithful and austere eremites. At the time of sacrifice ' they snatch away the jars, the flowers, the fuel, and the ' sacred grass of these sober-minded men'

25 The story of Rāma however belongs to the legendary
The Abhīras period of Hindu history, occupying
the same position as Homer The
Oldest architectural remains in the District are believed to be

i. C. P. Gasetteer (1870), Introduction, page XLIX, quoting from Muir's Sanskrit Texts.

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the circles of stones which are found in a number of villages, t and are attributed by the people to the pastoral Gaolis or Ahirs. A race of Abhiras or herdsmen are mentioned in inscriptions of the fourth century as living in the country round Mālwā and Khāndesh In several localities of the Nagpur plain local tradition tells of the dominance of the Gaolis, and some of the names of villages in the District as Gaurala," Mendhe Pathar3 and Mhäsepathär; may be derived from their former encampments. Hislop describes the stone circles as follows -The vestiges of an ancient Scythian race in this part of India are very numerous. They are found chiefly as barrows surrounded by a circle of stones, and as stone boxes, which when complete are styled kistyaens, and when open on one side ciomlechs. The kistvaens if not previously disturbed have been found to contain stone coffins and urns5. If these remains in truth belong to a race of nomadic heidsmen who spread over the country and reduced it to subjection, they may have been immigrants from Central Asia like the Sakas who were living in India at about the same periodo, these were pastoral nomads of the Cential Asian steppes, who were driven southwards by tribes stronger than themselves, and entering India established themselves in the Punjab and at Mathura, Gujarat and Kathiawar The calendar in common use in the Maratha Districts is named after them and was instituted by a prince of the Sakas in Guiarat in 160 A D. But whether these Abhiras were the same as the Gaolis of Nagpur tradition must remain a matter of conjecture

26. Nägpur probably tormed part of the territories of Vakataka dynasty the Vakataka Rājput kings, whose dominions included the Sātpurā plateau and Berār. Little is known of this dynasty except the

See para. 50 Archæology

<sup>&</sup>lt;sup>2</sup> Place of cows

Jungle with sheep,

Iungle with buffaloes.

Quoted in Waidha Settlement Report, 1867, page 21 Early History of India by V. A. Smith, page 186

names of ten kings, and the fact that they contracted alliances with other and better-known ruling houses. Their period may have extended from the third to the sixth century and the name of the perhaps semi-mythical hero who founded the dynasty was Vindhya-Sakti

27. A connet plate grant has recently been discovered at Ragholi in the Balaghat District Shail kings by Mr C E. Low, Deputy Commissioner, and a translation and commentary on this has been published by Mr Hira Lal, Assistant Gazetteer Superintendent. This grant speaks of a line of kings who possessed the whole of the Vindhya, a name which formerly included the Sătpură hills The plate is undated, but may be held on palmographic grounds to belong to the eighth century. These kings had, it is stated, made war with the kings of Gujarat, Bengal, Behar and Benares, and had settled in the Vindhya country, making Shri Vardhanpur their capital Their family name was Shail, which means 'A mountain' All the names of the kings given in the Ragholi plate end in vardhan and their capital town is spoken of as Shri Vardhanour. On this ground Mr. Hira Lil conjectures that Nagardhan near Ramtek, the old form of which was Nandivardhan may have been founded by a king belonging to the dynasty. Nagardhan was a place of importance in ancient times, as is shown by the mention of the Nagapura-Nandivardhana District in the copper-plate grant of 940 A.D., which is referred to subsequently. Local tradition retains some recollection of Hindu kings, who ruled from Nagaidhan. Nothing else at all is known, of the Shail kings however, and any theory concerning them must be based on pure conjecture

28. Nägpur was probably included in the dominions of the
The Rashtrakuta dynasty

Rashtrakuta dydates from about 750 A.D. Copperplate grants belonging to this dy-

nasty have been found at Multai in Betül and at Deoli in Wardhā. The Deoli plate is dated A.D. 940 in the reign of

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the king Krishna III, it records the grant of a village named Tälapurumshaka in the Nägapura-Nandivardhan District to a Kanarese Brahman. Among the boundaries of the village that was granted there are mentioned-on the south the river Kandana, Kanhana, or Kandava, on the west the village of Mohamagrama, and on the north the village of Vadhrira, and these have been identified by Dr. Bhandarkar with the river Kanhan, the modern Mohgaon in the Chhindwara District, and the modern Berdi in the vicinity of Mohgaon. Thus even at this early period Nagpur gave its name to a District, which included Wardha and the south of Chhindwara. The supremacy of the Rashtrakutas, who have been conjecturally identified with the Rathor Raiputs, lasted for about two centuries and a quarter. During their predominance the Kailasa temple at Ellora was built, the most extensive and sumptuous of the rock-cut shrines, and the period was also remarkable for the bitter rivalry of Hinduism and Jamism, Buddhism being at this period a declining religion in the Deccan1. in 973 A.D the Räshtrakuta kings were overthrown by another Raiput dynasty, the Chalukyas of Kalvani.

Apparently, however, the Nagpur country remained under the Rashatrakuta princes, 'now occupying a subordinate position as feudatories of the Chālukyas This is indicated by the Sitābaldi stone inscription, dated in the year 1087 A.D. It mentions the name of the Westein Chālukya king, and of a Rashtrakuta king Dhādibhandak as his dependent Rashtrakuta simply means Rājskul or the royal family and the native name of Mahārāshtra for Bombey is not improbably derived from this dynasty, Mahā being a prefix and meaning great. The family are called Mahārāshtrakuta in the Sitābaldī inscription.

29. By the end of the 11th century, however, the Nägpur
Ponwar kings. country appears to have passed out
of the hands of the Räshtrakuta
kings into those of the Pramaras or Ponwars of Malwa.

<sup>&</sup>lt;sup>1</sup> V. A Smith's Early History of India, page 328.

The Prashasti or stone inscription of Nagpur, dated 1104-05 A.D., mentions one Lakshma Deva who is supposed to have been a viceroy at Nagpur tot the Malwa king. 1 We know also that princes of this line penetrated to Berar and the Godavan and even to the Cainatic in the pursuit of conquest. A century before this, Munja, the seventh Rājā of the Pramara line, had sixteen times defeated the western Chālukya king Taila II, but his seventeenth attack failed and Munja, who had crossed the Godavari, Taila's northern boundary, was defeated, captured and executed about 995 A D2. It is possible that the existing Ponwar caste of the Nagpur country who have obviously been settled in the Province for a long period and have abandoned the customs of Rajputs, are a telic of this temporary dominance of the kings of Malwa According to their own traditions, the first settlement of the Ponwars was at Nandivardhan or Nagardhan, which as has already been seen, was at that time one of the two chief places in the District, and the ancestors of the Ponwars were probably the soldiers of the chieftain who ruled at Nagpur Not having brought their families with them, they would naturally intermarry with the women of the country, and develop into a separate caste. Mr. Hīra Lal, Assistant Gazetteer Superintendent, has recently deciphered an inscription at Ramtek, which goes far to show that Nagpur was included in the territories of the Haihaya Rapput dynasty of Chhattisgarh His account of it is reproduced. The inscription is a long one of about 80 lines and is engraved in beautiful characters on a coating of black cement fixed on to a stone and having itself the appearance of a stone surface. The Hathayas appear to have used this cement for their inscriptions as a second one engraved in it is to be found at Seorinārāyan The inscription consists for the

<sup>1</sup> C. P. Gasetteer (1870), Introduction, p. inv. Dr. Kielhorn, however, considers (Epigraphia Indica, vol. II, part 12, p. 189) that he was himself king of Malwal.

<sup>2</sup> V. A. Smith, p. 317.

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most part of a description of the sacred places of the locality, and the commencement, which gives the genealogy of the kings, is much mutilated. The names of two kings, Simhana and Ramchandra, together with the word Yadaya Vansa can however be read Now a stone inscription of one Brahmadeva of the Raipur bianch of the Haihayas dated in 1402 A.D. states that Brahmadeva's father was Ramchandia, whose father was Simbana.1 The same genealogy is given in another inscription of the same king dated in 1412, and there is thus little doubt that the kings of the Ramtek inscription were the ancestors of Brahmadeva and that the Hashaya armies had penetrated to Raintek in the 11th century. We know also that the chiefs of Lanu and Bhandara paid tribute to the Ratanpur branch of the Haibaya kings in 1114 A. D - and even in the 7th century Chanda is believed to have been included in the kingdom of Mahakosala, the name by which their territories were known, Nothing except conjecture can be stated as to the

The Gond princes of Deogarh Jatha.

history of Nagpur from this time until the rise of the Gond kingdom towards the end of the 16th

century Deegarh, the headquarters of the old Gond dynasty of Chhindwalia and Nagpur, is a fortress about 24 miles south-west of Chhindwalia, picturesquely situated on a crest of the hills For a short period towards the end of its existence, the Deegarh kingdom became of such importance as to overshadow those of Mandla and Chānda and to take first place among the Gond States. Of its earlier history, picatically nothing is known, but here, as elsewhere, popular tradition tells of a Gaoll kingdom preceding the Gonds The semi-mythical Gond hero, Jatba, who founded the dynasty, was born from a virgin under a bean-plant, and was protected by a cobra, which came and spread its hood over him during the beat of the day, when his mother left him to go

<sup>1</sup> Indian Antiquary, Vol. XXII., p 83.

Inscription of Jajalladeva , Ep. Ind., Vol. I., p 33.

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The Gond plinces of Deogaih laths the condition the state of the Gond kingdom towards the end of the 16th

century Deogarh, the headquarters of the old Gond dynasty of Chhindwara and Nagpur, is a fortiess about 24 miles south-west of Chhindwara, picturesquely situated on a crest of the hills. For a short period towards the end of it-existence, the Deogarh kingdom became of such importance as to overshadow those of Mandla and Chānda and to take first place among the Gond States. Of its earlier history, practically nothing is known, but here, as elsewhere, popular tradition tells of a Gaoli Kingdom pieceding the Gonds. The semi-mythical Gond hero, Jatha, who founded the dynasty, was born from a wirgin under a bean-plant, and was protected by a cobra, which came and spread its hood over him during the heat of the day, when his mother left him to go

<sup>&</sup>lt;sup>1</sup> Indian Antiquary, Vol. XXII., p 83-

Inscription of Jajalladeva , Ep. Ind., Vol. I., p 33.

to her work When he grew up, he went to Deogarh and took service under the twin Gaoli kings, Ransui and Ghansur, whose favour he gained by the feat of lifting the large castle gate off its hinges with his baie hands. He was ordered to slaughter the buffalo at the next Diwali festival, but was distressed as to how he should do this, having no weapon but a wooden cudgel. The goddess Devi, however, appeared to him in a dream, and told him that when the moment came his stick would change into a sword of the finest temper, and that after slaughtering the buffalo he should jump on to the royal elephant, kill the kings, and establish himself in their stead. All this came to pass as the goddess directed Jatba is said to have built the Deogarh fort and also those of Pātansaongī and Nagardhan below the hills But the existing remains at Deogarh are in the Muhammadan style, and were, no doubt, constructed by Bakht Buland after his visit to Delhi Mr Craddock<sup>1</sup> records a local tradition, according to which Deogarh was originally a Gaoli kingdom and was conquered by Sarbashā, a Gond king of Gaihā Jātba, known as Ajānbāhu Jātbashā, was eighth in descent from the founder of the dynasty, and was so called because of the length of his arms, his hands reaching to his knees. It is said that the Emperor Akbar, in whose reign he ruled, came to Deogarh, and that he himself visited Delhi. The kings before Jatba, whose names are mentioned in the tradition recorded by Mr Craddock, may probably be dismissed as figments of the fancy of some Brähman chronicles who wished to invest the house of Deogarh with a longer and more dignified pedigree. Jatha himself was only a petty local Zamindar, and was the first authentic member of the line.

31. Bakht Buland was the third or fourth in descent from
Bakht Buland Jatha and was reigning in 1700
A D This prince went to Delhi and
entered the service of the Emperor Aurangzeb. The story

<sup>&</sup>lt;sup>1</sup> Nagpur Settlement Report, page 14.

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goes that he performed some signal exploit and gained favour, and that the Emperor induced him to abandon the rites of Bhimsen and to adopt the Muhammadan faith, on which he was acknowledged as Raia of Decearh under the name of Bakht Buland Appreciating the spectacle of the civilisation and wealth of the Mughal Empire, he determined to set about the development of his own territories was at this time that the Nagpur country received its first great infusion of Hindu cultivators and artificers, who were tempted away by him from their homes with liberal grants of land. Sir Richard Jenkins says of him that 'He em-'ployed indiscriminately Musalmans and Hindus of ability to introduce order and regularity into his immediate 'domain Industrious settlers from all quarters were at-'tracted to Gondwana, many thousands of villages were 'founded, and agriculture, manufactures and even com-'merce made considerable advances. It may with truth be 'said that much of the success of the Maratha administra-'tion was owing to the ground work established by him.' Bakht Buland added to his dominions from those of the Raias of Chanda and Mandla, and his territories comprised the modern Districts of Chhindwara and Betül, and portions of Nagpur, Seoni, Bhandara and Balaghat The plateau and plain country were known respectively as Deogarh above and Deogarh below the Ghats Bakht Buland usually resided in Deogarh, except when absent on military expeditions. But he established the modern city of Narpur on the site of some hamlets, then known as Rajapur Barsa At this time the kingdoms of Chanda and Deogarh were attached to the Subah of Berar, and an officer had resided at one of the hamlets, then existing on the site of the present city of Nagpur, for the purpose of collecting the tribute on the part of the Fauidai of Paunar. Towards the end of Aurangzeb's reign, when the empire was enfeebled by his long wasting wars against the Marathas. Bakht Buland seized his opportunity and plundered the Mughal territory on both sides of the Waidha. The Muhammadan historian of the Deccan, Kah Khan, states that the Emperor on being informed of this conduct of Bakht Buland, ordered that his name, which had the meaning 'Of high fortune' should be changed to Nigun Bakht or 'Of mean fortune'; and that he also sent Prince Bedar Bakht with a suitable force to punish him. Nothing however is known to have come of this undertaking.

32. The next Rājā of Deogath was Chānd Sultān, who resided principally in the country heaty.

Pall of the Deogath dynasty.

Nagpur which he made a walled

town He continued the liberal policy of his predecessor, and under him the wealth of the country so increased as to make it a desirable acquisition to the great predatory Maráthá power already established in Berár. On Chand Sultán's death in 1739, Wali Shâh, an illegitimate son of Bakht Buland, usurped the throne and Chând Sultán's widow invoked the aid of Raghuji Bhonsla of Berár in the interest of her sons Akbar Shâh and Burhan Shâh. The usurper was put to death and the rightful heirs placed on the throne Raghuji estred to Berár, having concluded a treaty with them by which he received eleven lakhs of rupees and several Districts on the Wangangā as the price of his assistance, and was appointed the organ of all communications between the Gonds and the Governanct of Saltán.

This was the first direct connection of the Bhonsla family with Nagpur, although part of Gondwana had been conquered by Kaihoji Bhonsla as early as 1716. But the country was not destined to remain long without Raghuji's interference. Dissensions between the brothers ripened into civil war. In the year 1742, on one occasion, 12,000 Gonds ate said to have been massacred in the fort of Patansaongi. In the following year (1743) Raghuji was called in to support the elder brother Burhan Shāh Akbar Shāh was driven into exile and finally poisoned at Hyderābād Raghuji had

<sup>1</sup> Elliot's History of India, Volume VII, page 364.

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not the heart to give back to the weaker. Gond a second time the country he held within his grasp. himself Protestor, took all real power into his own hands and making Nagpur his capital, quickly reduced all Deorarh to his own authority. But still he studiously preserved the show of Burthan Shah's dignerty, whilst in reality he reduced him to the condition of a dependent, having a fixed that of the revenue, and the empty title of Raja. Burthan Shah's descendants have continued to occupy the position of state pensioners to the present time, and the representative of the timely resides at Nagpur with the title of Raja being called Sansthanks.

The founder of the Bhonsla family was Mudhoji Patel of Deor, in the Salara District, from The Bhonslas Raghun I which place the present representative of the family derives his title of Raja The correct spelling of the family name is Bhosle and it is derived from Bhosa, a village near Bombay Madhoii is said to have been a Silladai or leader of horse under the great Swaji, and of his 3 sons-Bāpujī, Parsojī and Sābajī-Parsojī rendered distinguished military service in the early Maratha wais, and as a reward was entrusted with the right to collect Chauth; in Berar. He died in 1709 and was succeeded by his son Kanhoji who was soon displaced by his cousin Raghuji, a grindson of Mudhoji's second son Bapuji Raghuji was the first and most distinguished of the Bhonsia rulers of Nagpur, He had plundered the country from Berar up to the gates of Allahabad In 1740 he made a raid on the Carnatic, and immediately afterwards commenced a seer's of expeditions to Bengal, which terminated after a convest of ten years in the acquisition to the Marathas of Cuttack and the promise of t velve lakks annually from Ah Vardi Knān as the Chauth of Beng il. In the meantime Raghuji established hi uself in Nagpur, where he reigned nominally as the representative of the Good prince from By 1751 he had effected the conquest 1743 10 1755

A The fourth of the revenue claimed by the Marathan,

of the Deugarh territories, Chanda and Chhattisgaih Ratanpur, the capital of the Hashayavansi kingdom. capitulated without a blow in 1741 on the advance of the Marāthā General, Bhāskar Pant, and four years afterwards, with the deposition of the last Raja, a Raiput dynasty whose annals carried it back to the commencement of the Christian era, ignominiously ended. The fort of Chanda was delivered up to Raghuji by the treachery of a Diwan in 1749 and two years later was finally ceded to him Raghuji died in 1755 The countries under his dominion or paying him tribute may be generally described as extending east and west from the Bay of Bengal to the Ajanta hills and north and south from the Nerbudda to the Godavari. His army was principally composed of horse. His standing force was about 15,000, but was liable to be augmented every year according to the exigencies of the moment. Bold and decisive in action Raghuii was the perfect type of a Maratha leader. He saw in the troubles of others only an opening for his own ambition and did not even require a pretext for plunder and invasion. The reign of Raghuji I is chiefly important in the history of Nagpur because with him came that great influx of the Kunbis and cognate Maratha tribes which altered the whole face of the country and the administration of the land, as well as the language of the people.

34. Raghuji was succeeded by his son Janoji, though
Janoji. not without opposition from another
brother Madhoji. The matter was

reterred to Poona; the former was confirmed in the sovereignty of Nagpur, with the title of Sená Sahib Subah, while Chânda and Chhaitisgarin were griven as an appanage to Middhoji. Janoji turned all his attention to settling the territory left him by his father. He and his kingdom sustained no murby by the battle of Panipath, but rather from the terrible losses of the other Maratha princes he became relatively stronger. Son after this the Nizim, taking advantage of the minority of the Peshwa, Madho Rao, attacked his

territory. Janoii was bought off from an alliance with him by the promise of the Surdeshmukhi and full liberty to plunder his brother at Chanda; but though he abandoned the Mughals, he afforded no aid to the Peshwa. The Nizam in that year was successful and dictated peace almost at the grates of Poona in 1762. Next year however, he broke through his territories and gained over lanoit to join him. Together they sacked and burnt Poona This was not the last of lanoit's treachery. By the promise of territory yielding 32 lakhs of annual revenue he was induced to betray the Nizam and attack his army in concert with the Peshwa's troops, in consequence of which the Mughals were entirely defeated. The price was paid to Janoji, but the boy Peshwa did not fail to reproach him with his treachery. He detested Janoii already and in 1765 united with the Nizam to avenge the sack of Poona. The confederate armies advanced to Nagpur and burned it and forced the Raja to disgorge the greater part of the price of his former treachery. Two years later lanoi was again in arms against the Peshwa, having joined in the jebellion of Raghoba, uncle of the Peshwa and On this occasion the Peshwa advanced through Berär up to Nägpur, while Janoji having given him the slip, was plundering around Poona. But he was ultimately obliged to sue for peace, which was concluded in April 1760. In this treaty Janou's dependence on the Peshwa was fully acknowledged. He bound lumself to furnish a contingent of 6,000 men and to attend the Poshwa in person whenever required; to pay an annual tribute of a lakhs of supees; to enter into no general negotiation with foreign powers and to make no war without the Peshwa's sanction. On his return tourney to Nagput in May 1772 he died at Tuliapur on the river Godavari. During his reign the country of Nagpur except on two occasions had perfect peace within its boundaries. Janoji's name is remembered as the settler of what his father only conquered. In his

<sup>1.</sup> Sir Richard Jenkins, p. 50 and Grant Duff, Vol. I, p. 697.

private life he was easy of access, and most regular in the observance of all duties of state and of religion

Sibuji and Müdheji his yomhful son Raghuji the late king's nophew and hen by adop-

tion, could reach Nagpur, Sabari, another brother of Janon. had usuiped the government. During the next, two years and-a-half a civil was raged, diversified in 1773 by a short reconciliation and joint government, and characterised by repeated desertion of either party by Darva Bar, widow of the late Raia Ianoii, who now supported one claimant to the throne and now the other. The closing scene of this confrast was on the battlefield of Pancheaon. six miles south of Nagput. The fortune of the day had declared for Sabni, and Mudhoil was being surrounded by his brother's troops. Flushed with the fight and with victory, Sabaii drove his elephant against that on which his brother was seated, and called on him to surrender. A pistol shot was the only taply. One brother had slain the other, and gamed the undisputed regency on behalf of his son, and the title of Sena Dhurandhar1 Mudhoriat once set about testoring order in the affairs of the state, governing wisely and moderately. In the year 1777 he entered with caution into engagements with the English, who were then preparing to support the claims of Raghoba as Peshwa. He was obliged, however, in order to keep up appearances at Poona to send troops down to Cuttack ostensibly against them Their march was intentionally delayed, and when they arrived they did not act against the British Government, who were all the time kept informed that this march on Cuttack was a mere pretence. The Regent even assisted the march of Colonel Pearse through his provinces. when a force was being sent from Bengal against Haidar This display of a conciliatory spirit towards the English happened too at a time when Bengal was denuded

<sup>1</sup> Sir Richard Jenkins, p. 51 and Grant Duff, Volume II, p. 36.

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of troops In 1785 Mandla and the Upper Neibudda valley were nomin illy added to the Nagpur dominions by a treaty in which Madhoji agreed to pay twenty-seven lakh of supers into the Poona treasury.

36. The Regent died in 1788, leaving all the Nagpur
Raghuji II state tranquil and prosperous, conditions which had lasted within

the present Nagpur District ever since the battle of Fanchgaon. He left great treasure in cash and in jewels to his family His son Raghuji, though of age and nominally Rājā, had remained during the lifetime of his ible father in perfect submission and obedience. He now assumed control of the state. He went to Poona where his titles and dignity were confirmed. He also obtained for his younger brother Vyankaji the father's title of Sena Dhurindiar, with Chanda and Chhattisgarh as an appanage Chimnaii, the other brother, was to have had Mandla, but he died shortly after Raghuji's return to Nagpur, very suddenly and not without suspicion of foul play. The Raja took up his residence at Nagpur, while his troops were fighting in the Peshwa's army against the Nizām and Tipū of Mysore. He participated in all the advantages gained by the Marathas in these wars, and commanued the 11ght wing of the Peshwa's army at the victory of Khardla. In the year 1796, when the political condition of Western India was much confused, he seized upon Hoshangābād and the lower Nerbudda valley. In the two following years he had gamed the forts of Chauragarh, Tergarh, and Mandla from the Chief of Saugor, as also the fort of Dhamoni from another Bundela chieftain. In 1707 Yashwant Rao Holkai fled for shelter to Nagpui but found only a prison.

37. The Nagpur kingdom was now at its greatest extent
The Nagpur kingdom
and included, under Raghuji II, practically the whole of the present
Central Provinces and Berär, besides Orissa, and some of

the Chota Nagour States. The revenue of these territories was about a crore of tupees. Raghuii's army consisted of 18,000 horse and 25,000 infantry, of which 11,000 were regular battalions, besides 4000 Atabs. His field artillery included about 90 pieces of ordnance. The military force was for the most part raised outside the limits of the state, the cavalry being recruited from Poona, while besides the Viabs, adventurers from Northern India and Rapputana were largely enlisted in the infantry. Up to 1803 the Maratha idministration was on the whole successful The Bhonslas, at least the first four of them, were military chiefs with the habits of rough soldiers, connected by blood and by constant tamiliai intercourse with all their principal officers scended from the class of cultivators, they ever favoured and tostered that order, and though rapacious were seldom cruel to the people. Of Janoji, the successor of Raghun I, it is recorded that the king did not spare himself, being referred to in the smallest as well as the greatest matters of state . nor did any inconvenience or delay to the public service arise from this system, for even when not sitting actually in Darbar the Raja was always accessible to any person who had business to propound to him. Early in the morning he held his Darbar in an open verandah looking on to the street, visible to the people, and accessible to their personal calls for justice and redress of injuries. He sat on his throne with his sword and shield before him and all the ministers and military chiefs attended and carried on their daily business in his presence. The etiquette of the Court of Nagpur was never burdensome, the Raia receiving a stranger of any rank nearly as his equal, using to take his salute and embrace him. It is noticeable that under the Marathas no regular judicature existed. The revenue officers could take cognisance of civil and crimmal cases, while the headmen of villages had certain minor magisterial powers. In important cases an appeal lay to the Rājā, who decided after discussion in open Darbar as on an affair of state.

28. The reigning prince was far from absolute, and his younger brothers held portions of The Rask and his offithe kingdom as appanages, with cers. independent courts, while the near

relatives of the family had a voice in all matters of moment. The nobles who had seats in Darbar were known as Mankaris. Some of these were really in the nature of spies upon the Bhonsla prince in the interests of the Peshwa. Of the state functionaries, the Diwan was the aringinal minister, representing the Raja in all departments. the Farnavis was secretary of the finances, the Warar Pandva was responsible for the land revenue, the Chitnavis was general secretary, and the Munshi secretary for foreign affairs. The Sikkanavis was keeper of the king's seal. Such was the affection of the Marathas for the hereditary principle that even these great offices descended in the same families, where the proper incumbent was unfit, the department was managed by a deputy but he received a portion of the emoluments for his support. The principal military officers were the Sardaftar or Comptroller of army estates 2 and the Mir Bakhshi or Paymaster-General The Subahdars of provinces held military and civil command within their respective local jurisdictions. These officers were for the most part paid by jagiis or other grants of land on exceptionally favourable terms.

39. During this time the connection of Nagpur with the Bengal Government had been grow-Raghuji joins Sindhia ing firmer, and in 1708 Mr. Colebrooke was appointed Resident to

against the British. Peace of Deogson

the court of Raghuji, but he did not arrive at Nagpur until March 1799. In May 1801 the British Resident, who had vainly endeavoured to enter into a defensive alliance against Sindhia, withdrew from Nagpur, and Sindhia and Raghuji united together in the year 1802 to

<sup>.</sup> This designation probably refers to the territories allotted for the support of particular garrisons.

oppose the British Government which had now replaced Ban Rao, the Peshwa, after the treaty of Bassein. This they did in accordance with the wishes and secret directions of Ean Rao himself. General Wellesles soon brought the confederates to battle at Assive Raghuji left the field at the commencement of the battle, Sindhia's troops bore the brunt of the day and suffered very heavily, but at Argaon, a few weeks after, the Nagput army under Vyankan Bhonsla was completely worsted. The fort of Gawilgath soon after fell to the British. Meanwhile from the Bengal side Colonel Harcourt had won the whole of Raghuji's province of Cuttack The price of the peace which he now sued for was heavy: nearly one-third of his kine dom was shorn of, comprising East and West Beiär, with Balasor and Sambalpur and its dependencies, while lastly the Raia was to receive permanently a Resident at his court at Nagpur, and Mr. Mountstaart Elphastone was appointed to the post. Before this peace Raghui's annual revenue had been nearly one crore of rupees, but after the loss of Cuttack and Berar at fell to about sixty laklis Before the war he had 18,000 horse, mostly Marathas of the Poona country, and 25,000 infantry. of which 11,000 were of regular battalions, besides these he entertained a body of 4000 Arab mercenaries. His artiflery counted ninety guas, but of these thirtyeight were lost at Argaon. His cavalry were also much reduced after that battle, and after the ensuing peace the regular infantiy were never replaced

During the campaign which Raghuji had undertaken with Sindhia, the Nawh of Bhopal had seized on Hoshang-abad. This the Raja recovered in 1807. Sambalpur with its dependencies was restored to him by the English in 1806, but some of the zamindars were opposed to the transfer, and their resistance was not overcome until 1808 his kingdom now comprised the Nagpui Districts, Chanda, Chhattisgarh with its appanages, Sambalpur, and the Districts on the Nerbudda.

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40 From this time Raghuji, nicknamed by his people 'The Big Baua', threw off all restaint in his unwillingness to show a reduced front to the world. Not

ly did be rackrent and sciew the fairning and cultivating isses but he took advantage of the necessities which his na acts had created, to lend them money at high interest. I withheld the pay of his troops, advancing their meney on orbitant terms through his own bonking establishments, at which he paul them at last, giving a third in clothes in his own shops at most exaggerated prices. When all her means failed he organised regular house-breaking peditions against the stores of men whom his spies had sorted to be wealthy. He owned whole rows of shops in a bazar and the same spirit of avairies and rapacity vaided his family and his court. Coarse and vulgir in rson, he was jealous of everyone and so prying into aminite details of Government that no one served him strilly.

The Nagour portion of his dominions now became the and of frequent contests with the Pindaris and the robber rdes of Ann Khan. For security against these marauders st of the village forts were built, the remains of which id the whole of the District. Insignificant as they may w appear many of them have been the scenes of struggles iere the peasant fought for bare life, all he possessed outle the walls being already lost to him. Old men spoke ty years afterwards of the hard lot of those days, how by sowed in sorrow, with little hope of seeing the harvest, d how, whenever they did reap, they buried the corn at ce in the ground. The holdness of these robbei bands came so great that in November 1811 they advanced unr Amir Khāu's leadership up to Nāgpur, burned one of the burbs and only retired when they knew that two British umns were approaching from the Nizām's dominions to we them back. There is however great reason to believe

that many of the bodies of marauders who plundered the country did not belong to the Sindhia Shahi or Holkar Shahi hands of Pindaris, but were portions of the Nagrous army, which, when they could not be paid from the treasury. were allowed in this way to help themselves The name of Dharman Bhonsla, a bastard son of Raghun II, is well remembered as a leader in these forages. In this same year Raghuii had been tiving to conquer Garhakota, the possession of a petty chief near Saugoi, but Baptiste, one of Sindhia's generals advanced to its relief, and routed the Nagpur troops. In 1813 the Raia of Nagpur entered into a compact with Sindhia for the conquest and partition of the territories of Bhopal After besieging the capital for nine months, the confederates had to retire in July 1814, baffled by the energy and heroism of Wazir Muhammad would have renewed his attempt in the following year had not the Bengal Government declared that this could not be permitted.2

Parsoji, and paralysed Very soon after his accession the new Raja became totally imbecile, and it was necessary to appoint a Regent. Baka Bai, the widow of the deceased Raja, with his nephew Gapana Dada Gajar, for some time kept possession of the Raja's person and the regency, until with the consent of the Mankaris (Maratha nobles) and the military leaders Mudhoji Bhonsla, the son of the late Raja's younger brother Vyankaji, and next of kin to Parsoji, succeeded in becoming regent. While the issu was still uncertain and after being installed as Regent Mudhoji, or Appa Sahib as he was general Madhoji, or

nerally called, courted the countenance of the new Resident, Mr Jenkins, and was anxious to get a sub-idiary force, for he knew that there was much debt to be cleared off, and that it would be necessary to reduce the strength of the

41. Raghuji died in March 1816 and was succeeded by

his son Parsoii, a man blind, lame

Sir Richard Jenkins, p. 57.

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army; a measure sure to create much discontent. Accordingly on the 28th of Ma: 1286 a treaty of defensive alliance was signed, by which the Brutish were to maintain six battalions of infantry, with cavalry and artillery, while Parsoji was to pay seven and a half lakhs of rupees annually and to maintain a contingent of 2000 horse and 2000 infantry for the purposes of the alliance. It was, however, tound in the campaign against the Pindaris in the cold season of that year that the contingent thus furnished by the Rājā was useless. In January 1817 Appa Sāhib went away from the capital under pretence of visiting Chânda on urgent state affarts. A few days after his departure the Rājā was found dead in his bed poisoned, as it subsequently proved, by his cousin Appa Sāhib' vi his cousin Appa Sā

42. Parsoii had no son, begotten or adopted, consequently, Appa Sahib, being the Appa Sahib. nearest relative to the deceased in the male line, ascended the throne before any oppi sition could be made by Baka Bai and her party. From this time the bearing of Appa Sahib, before so cordial to the British, underwent a speedy change. The emissaries of the Peshwä won him over to join with their master in his plots and treachery. He also joined in the schemes of Sindhia, and afforded encouragement to the Pindaris, even proceeding so far as to receive into his presence the emissaries of the notorious Chitu, and to confer on them diesses of honour All this time, however, he was full of protestations before the Resident of good faith and feeling to the English. During the early part of November the conduct of Appa Sahib was very suspicious. The Nagpur troops, which should have been sent on to the Nerbudda to join in the Pindari campaign, were kept back; there was a torce already drawn around tne capital of 8000 horse and as many foot, lastly, an active levy of troops from as far even as Mālwā was commenced. Resident on his part called in the detachment of Colonel

<sup>1</sup> Grant Duff says he was strangled (Vol. II, p. 529).

Scott from Nagardhan near Ramtek, and messengers were sent to Colonel Gahan to hurry back from the neighbourhood of Hoshangabad The ..ews from Poona, of the Peshwa having now openly broken from his engagements with the British, ie whed Nagpui on the 14th November 'On the night of the 24th the Rājā informed Mr. Jenkins that the Peshwā had sent him a khulat, with a golden standard, and the high title of Senāpati. He intimated his intention of receivirg investiture of title and honours in state on the following day, and invited the Resident to be present at the ceremony Mr Jenkins remonstrated, stating that as the l'eshwä was at that moment in aims against the English, the Rajā's public acceptance of these marks of distinction was inconsistent with the terms of his alliance with our Government On the following day the Raja received the khilai in public Darbai, and alterwards proceeded to his chief camp, beyond Tikli, where, in front of his troops, he assumed with every ceremony the dignity of general-inchief of the aimies of the Maratha empire. The next morning an extreme measure, which had been delayed to the utmost was carried out, the brigade under Lieutenant-Colonel Hopeton Scott moved from its lines at Telinkheri to the Residency, also occupying the double hill of Sitabaldi This movement was executed only just in time, for a body of Arabs, stationed in a village where now stands the railway station, were only awaiting the final order to secure this position for themselves. Expresses were also sent to call up General Doveton with the second division of the Deccan Aimy from Beiar The troops with Licute-

<sup>&</sup>lt;sup>1</sup> This was the occasion when the battle of Poons between the Peshwa and the Subsequent operations—the memorable defence of Kortygeon I non-1818 BIN. Rao Peshwa gave himself up to Sin John Marcolin in Nimit. His territoris were annexed and Bithür near Cawapore was appointed as his place of residence, where he remanded libs death in 25th. His adopted son Dhondo Pant, whose succession the British Government refused to recognise, was the Nana Sahlo of the Mutin.

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nett-Colonel Scott were a bigade of two battalors of Madras Native Infantry, one battalion being of the 20th, the other of the 24th, both much weakened by sickness. There were also the Resident's escot, two companies of Netwe infantry, three troops of Bengal Native Cavairs, and four six-pounders manned by Bui openies of the Madras Artillery.

43. The hill of Sitabaldi, standing close over the Residency, consists of two eminences The bettle of Stabuldi joined by a natiow neck of ground, about 300 vards in length, of considerably lesser elevation than either of the two hills. The whole surface is rock, so that it was impossible in a short time to throw up any entrenchment. Of the two eminences, that to the north is the lesser, but being within musket range of the principal summit, its possession was of vital importance, particularly as on that side the suburbs of the city came close up to its base. and gave cover to the enemy, who throughout the 26 h were seen collecting. Three hundred men of the 21th Regiment. under Captain Sadler, were posted on the smaller hill with one gun. The cavalry occupied the enclosures about the Residency just below the lower hill on the west; the remainder of the force, scarcely Soo men, were posted on the larger hill. On the evening of the 26th the battle began by the Araba. from the village already mentioned, opening fire on the position. The engagement lasted till about 2 o'clock in the moining, when it slackened somewnat on the side of the Marathas. Several times during the night the Arabs had come on, sword in hand, and tried haid to carry the smaller hill, but were repulsed every time, though at the cost of many lives to the defenders. Time after time as the ranks of the 24th Regiment were thinned, help was sent down from the 20th which was posted on the larger hill. Dawn of the morning on the 27th November saw the English troops holding an isolated position. Eighteen thousand men, of whom nearly one-quarter were Arabs, were drawn up against them, with thirty-six guns, all brought into position during

the past night. The total force of the British at the commencement of the action had been 1800. At 5 o'clock in the morning the few remaining men of the 24th, being utierly exhausted, were withdrawn, their place being taken by the Resident's escort, with orders to confine their defence to the summit of the smaller hill, which had by this time been somewhat strengthened by a breastwork of pags of grain. Thus they continued to fight till a o'clock when the Arabs again charged home Just as they gamed the crest, the accidental explosion of a tumbrel caused some confusion among the defenders The sepoys were overpowered, the lesser hill lost, and the gun. which fell into the enemy's hands, was turned against the greater hill. The brigade had now lost much of their superiority in position, from the nearness of the enemy and the fire of the gun on the lost hill, officers and men began to drop fast. The enemy's cavalry and infantry hegan to close in from every side and to prepare for a general assault. To add to the perplexity of the moment, the Arabs broke into the huts of our troops, and the shrieks of their wives and children reached the ears of the sepoys, while a body of horse entered the residency compound where the ladies had been placed in a separate house. The three troops of Bengal Cavalry, together with the Madias horsemen of the Resident's escort, had been kept all this while in the enclosures round the Residency. Their commander. Captain Fitzgerald,1 now formed his men outside the enclosures, and charged the principal body of the enemy's horse,

<sup>2</sup> According to Grant Duff's version of the story, Captian Fitigral and repeatedly applied for permission to charge, and was a soften prevented by orders from the Commanding Officer; but seeing the impending destruction, he made a list attempt to obtain leave. Colonel Scott's reply was, "Tell him to charge at his peril", for 'at the hazard of his commission). If it is only at the hazard of moormission, here goes,' said the gallant Fitigrand on receiving this answer and immediately gave the word to advance but the accuracy of this is double.

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The Marathas did not long resist the onset of this little band, but breaking in all directions, abandoned a small battery by which they had been supported. Captain Fitzgerald pursued them for some distance and then re-forming. charged the battery, took some of the guns, and brought them into the Residency in triumph. The success had been witnessed by all the infantry on the hill; and the men, before drooping from the faugue of fifteen hours' fighting, became once more animated A combined attack of cavalry and intantry on the Arabs was being arranged when another tumbrel. on the lesser hill blew up, causing great confusion amongst the enemy. The idvantage was seized, and the little hill was in a few moments again in possession of our troops, who pursued the enemy through the Arab village, and spiked two guns beyond it before they returned to their posts Again the Arabs were rallied, and fresh troops brought up just as they were ready to advance against the hill, a welltimed charge around the base of it, by a single troop of cavalry under Cornet Smith, took them in the flank, and finally scattered them. The troops from the hill now made a general advance and cleared the ground all about. By noon the enemy's artillery was carried away, and the battle was over. The British lost 267 killed and wounded, including sixteen British officers. Amongst the killed were Mr. Sotheby of the Civil Service, who had been in attendance on the Resident throughout the engagement, Captain Sadler and Lieutenant Grant of the 24th Regiment, Lieutenant Clarke of the 20th Regiment and Doctor Nevam of the Escort.

44. After this humiliating defeat, the Rājā hastened to disavow any connection with the attack, and to express his regret for what had occurred. His troops and guns were withdrawn from the Sitabaldi side of the city. During the following days various detachments of troops came to the assistance of the Resident, until the Nāgpur force included two regments of native cavalry, Madras artillery and engineers,

about five battalions of native infantry and eight companies of the 1st Royals (

The Regent on the 15th December demanded the unconditional suitender of the Raja, and the dishandment of his troops. Till four o'clock on the following morning was given for consideration. On the same afternoon all the stores. baseage, and women were sent to the Sitabaldi hill under guard of the troops who had previously so gullantly defended that position. At dawn on the morning of the 16th the English troops took position, having their left on the Nac-Nadi, with the cavalry on their right on the open ground towards Anini. At nine o'clock Appa Sahib surrendered, but when the British advanced to take possession of the guns, a cannonade was opened upon them. The line was in consequence immediately formed and the guns were stormed and taken, with 144 casualties on the British side. The action took place over the ground lying between the present fail buildings and the Sakardara gardens, where the Maratha guns were placed. The Marathas were completely routed and lost their whole camp with forty elephants and 63 guns. The Maratha chiefs who had not surrendered, being deprived of Anna Sahib's authority, lost all control over their scattered forces which now dispersed about the country. One of his principal officers went off to Sholapur and joined Bau Rao Peshwa. Another with the Arabs retired into the fort and city of Nagpur which still held out

An attempt was made on the 24th December to obtain possession of the city by storming the Juna Darw2an. This was not strongly tortified, but was defended by the Arabs posted with matchlocks in small bodies in the bouses on each side of it. The gateway was breached by artillery, and on the myring of the 24th, during heavy rain, a small storming party attempted to enter it. The breach was

t Subsequently the 2nd Battalion, Royal Scots (The Lothian Regiment).

Gateway.

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gained, but the severe fire of the Arabs prevented the party from advancing and they were eventually compelled to reture. Simulianeous attacks were made on the Tulsi Bag and other positions and the former was carried, but the failure to effect a lodgment in the breach rendered it useless to continue the action at other points and eventually the whole of the troops retired with 307 casualties. Lieutenant Bell of the Royal Scots was killed in the breach and two other officers were wounded General Doveton who was in command of the Forces, desired to await the arrival of a siege tiam to effect the complete reduction of the city, but on the Arabs agreeing to match out with their property, families and aims, Mr Jenkins allowed them to do so as the immediate acquisition of the city was important.

45. On the 6th January an engagement was drawn up

Deposition of Appa
Sahib.

Deposition of Appa
Sahib.

Teinstating Appa Sahib until the pleasure of the Governor-General

was known on his agreeing to cede

his territories in the Nerbudda valles, and his rights in Berär, Gawilgarh, Surgujā and Jashpur, to conduct his affairs according to the advice of the Resident, to give up such forts as might be demanded and to allow of the erection of military works on Stabaldi. The Governor-General disapproved of the testoration of Appa Sahib to power but desided that the treaty must be confirmed

The division of General Doveton proceeded wastward to help in taking the forts in the territory ceded by Holkar, and in the pursuit of the Peshwa. No sooner had General Doveton's troops left Nagpui than Appa Sahib renewed his intrigues, raised the Gonds, and sent-ecret instructions to the Killedars or castellans not to surrender the forts, which they were holding, to the English; and finally he applied for assistance to Baji Rao. Even within a day's march of the capital the wild Gonds were burning Makardhokra, Amgaon, and other villages belonging to Baka Bai, the Downger Queen, the Rajā's political opponent. He sent

messages for help to the Pevhwā and arranged for his own escape to Chānda. At this time also his participation in the murder of his cousin had become known. Six R Jenkins now arrested the Rājā, and it was determined that he should be confined for life in Hindustān. He was sent under escout towards Allahābād, but on the toad he managed to corrupt his guard, and escaped in the dress of a sepoy. He fled to the Mahādeo hills, where he was joined by Chītu, the last of the Pindāti leaders. He ultimately escaped, first to Asīgash and then to Upper India, and died in Rājuutāna in 1860.

46. On the final deposition of Appa Sahih a maternal grandchild of Raghui II was Rachus III adopted by the widows of his grandfather. He took the name of Bhonsla, and was recognised as Rājā Raghuji III, on the same terms as were granted to Anna Sahih in 1816. A Regency was established, at the head of which was the Baka Bai, widow of the second Raghui. She had the care of the young Raid's person but the Resident superintended and administered every department of the State through officers appointed by himself. In the year 1820, during the Residentship of the Honorable R. Cavendish, and four years after the departure of Sir R. lenkins from the scene of his labours, the Raia was nermitted to assume the actual government. The time of the Raia's minority, when the country was administered by British Officers under the Resident, was long remembered with favour by the people Nothing occurred to disturb the peace at large during the next seventeen years; the country was quiet and prosperous; and the security, afforded by a firm and just rule, was a great stimulus to banking and trade. In the year 1848 an impostor named Raghobharti Gosain, pretending to be Appa Sahib, raised an insurrection in Berar, but the disturbance did not extend to Nagpur Raghuji III died in December 1853 without a child, begotten or adopted. The Marquis of Dalhousie, then GovernorHISTORY 51

General, declared that the State of Nagpur had lapsed to the Paramount Power This order was confirmed by the Court of Directors of the late East India Company and by the Crown, and Nagpur became a British Province.

47. From 1853 to 1861 the Dominions of the Bhonslas

Occurrences during the Mutnay

Occurrences during the Mutnay

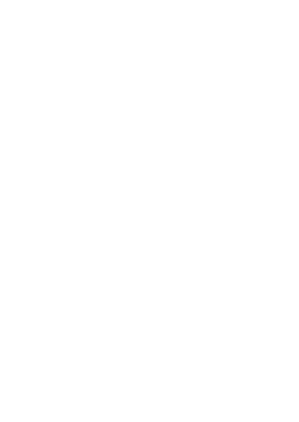
Ominissioner of the 'Nagpur Pro
Commissioner of the 'Nagpur Pro-

vince' The even course of affairs in that period was broken only by the local events connected with the Mutiny. It is not believed that Nagpur had any communication with the disaffected centres of the Bengal army before the outbreak, but with the first intelligence of the disturbances unrest appeared in the city The chapatis had indeed been circulated, but here, as in other parts of India, their import was certainly not understood by the bulk of the people, amongst whom they failed to attract any particular attention There was noticed, however, about the end of April, on the part of some of the leading Muhammadans of the city, an unwonted opposition to the orders of Government on the subject of extra-mural sepulture. This opposition was met by decisive action; intra-mural sepulture was prohibited, and the order was obeyed, but not without covert hints that the time tor issue of orders by any British Government was not far from its close. The behaviour of the Muhammadans was from this time carefully watched. In May 1857 Mr Plowden was Commissioner, and Mr. Ellis, 1 Deputy Commissioner, of Nagpur. The troops stationed at Nagpur belonged to the Nagour griegular force, and consisted of a regiment of rregular cavalry, largely recruited from the local Muhammadans, a battery of artillery, and a regiment of Hindustani infantry. Kamptee was garrisoned by two regiments of infantry and one of cavalry of the Madras army and two European batteries.

<sup>&#</sup>x27; Mr R. S. Ellis, C.B., afterwards Chief Secretary to the Government of Madras.

Intelligence of the calamities at Meerut and Delhi arrived at Nagpur before the en 1 of Attempted rising. May; and it seems that immediately after this a scheme for a rising was concocted in the lines of the regular cavalry, in conjunction with the Muhammadans of the city. Secret nightly meetings in the city had heen discovered by Mr. Elis, and the Scotch Church Mi-sionaijes, who had schools and some influence in the city, had given warning that the public mind was much disturbed. The rising was fixed for the might of the 12th of lune, when the ascent of a fire-balloon from the city was to have given the signal to the cavalry. But a few hours before the appointed time one squadron of the cavalry received orders to march for Seoni. This disconcerted the plans of the conspirators and a daffadar was deputed to rouse the infantry. He was at once seized and confined by the first man he addressed, and Mr Ellis and Mr. Ross. Assistant Commissioner, being informed by the Jail Sub-Inspector of certain suspicious movements in the cavalry lines, repaired to the house of Captain Wood, the Second Officer of the regiment. At Captain Wood's house it was discovered that the regiment were saddling their horses, It was now past ten o'clock at night, and by this time the alarm was general. Mr. Ellis sent the ladies of the station for safety to Kamptee, and troops were summoned from that place Meantime the arsenal had been cared for by Major Bell, Commissary of Ordnance. Loaded cannons were brought up to command the entrance and approaches, while a small detachment of Madras sepoys proceeded to the Sitabildi hill, and got all the guns in position. The behavious of these last was such as to remove any anxiety as to the Madras troops having been tampered with. But at this juncture, until the airival of iroops from Kamptee, everything depended on the temper of the irregular infantry and artillery. The officer commanding the infantry was

Subordinate native officer corresponding to corporal,



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prostrate from wounds received from a tiger; the only other officer of the regiment was away from the station. Accordingly Lieutenant Cumberlege, the Commissioner's Personal Assistant, who had previously been with this regiment, proceeded to their lines, and took temporary command He found that their regiment had fallen in of their own accord on their parade ground, most ready and willing to execute any orders. The battery of artiflery. commanded by Captain Playfair, evinced a spirit equally good Having made sure of these portions of the troops, Mr. Ellis now went down to the city Everything was found perfectly tranquil. The conspirators must have become aware that the authorities were on the alert. that their co-operators in the cavalry had failed to get the infantry to join, and were now hesitating. The fireballoon was never sent up. The cavairy, when they heard of the fate of their emissary, seem to have lost all heart. They unsaddled their horses and remained quiet. Subsequently they were turned out on foot without their arms, the infantry and the artillery being drawn up in position fronting and flanking them. It was in vain that efforts were made to induce them to name the ring-leaders, or those who had been saddling their horses. The daffadar who had been seized in the infantry lines was tried by courtmartial on the next day, and condemned to death. The behaviour of the native officers of the cavalry had been carefully watched, and within a few days evidence was obtained through a loval Muhammadan gentleman, Tafazzul Husain Khan, by which five of them were convicted of disloyalty. They were hanged from the ramparts of the fort overlooking the city, and with them two leading Muhammadans of Nagpur. The treasure was removed to Sitabaldi fort, and a supply of provisions for three months was thrown into the fort and the arsenal at its foot. The cavalry were disarmed and till the 30th November the men were kept under surveillance in their own lines. They were

then again armed and moved towards Sambalpur where they performed their duties well. There were no other disturbances in Nagpur and for the manner in which the temporary cusis was met and overcome great ciedit was due to the Deputy Commissioner, Mr Ellis. The aged Bhonsia nuncess. Bakā Bai, exerted all hei influence on the side of the British and did her utmost by her example to keep the Maratha Districts loval. The successful issue of the event at Nagous was of the utmost importance to Southern India. As a leading Maratha State which had been recently annexed, its defection would have served as a beacon of revolt to the Southern Maratha country and to the turbulent subjects in the north of the Nizām's dominions. Towards the close of 1858, Tantia Topi crossed the Nerbudda on a projected raid into the Maratha Districts and some apprehension was felt lest the arrival of the representative of the Peshwa might induce the Marathas to rise in revolt. Columns were sent out to the bank of the Wardha and into the Chhindwara District, and the effect of these dispositions was that Tantia Topi, who had penetrated as far as and burnt Multar, was turned off in an easterly direction, when he was met and defeated by a column from Amraoti and again driven northwards.

# Formation of the Ceniral Provinces.

49 After the Mutiny the detached position of the Nagnur Districts and the Saugor and Nerbudda Territories, too remote from the headquarters of any Local

Government to be efficiently administered, led to the determination to form a new Province, which was carried into effect in 1861. With the addition of Beiat in 1903 the Central Provinces are not far from representing the Bhonsla kingdom at its greatest extent. It includes Saugoi, Damoh and lubbulpore, the greater part of which did not belong to the Bhonslas, and is without Sambalpur and Cuttack, which were included in their possessions. A list of the Chief Commissioners of the Central Provinces is annexed

55

List of Chief Commissioners who have administered the Provinces since their constitution —

No	Name	Date of assuming charge of office.
ı	Col E. K Elhot	11-12-61
2	LtCol. J. K. Spence, Offg	27-2-62
3	Mr. Richard Temple, Offg	25-4-62
3	Col. E K Elhot	18-12-63
4		12-3-64
*	Mr J S Campbell, Offg Mi Richard Temple	17-3-64
	Mr J S. Campbell, Offg	24-4-65
	Mr Richard Temple	6-11-65
5	Mi. J H Morris, C. S I., Offg	4-6-67
6	Mr. G Campbell	27-11-67
-	Mr. J H Morris, C S. I., Offg.	16-4-68
	Confirmed .	27-5-70
7	Col. R H. Keatinge, V C., C.S.I., Offg.	8-7-70
•	Mi J H. Morris, C. S. I	6-7-72
8	Mr C. Grant, Offg	11-4-78
	Mr J H. Morris, C S. I	15-11-79
9	Mi W. B. Jones, C. S. I.	30-4-83
10	Mr C H T, Crosthwaite, Offg.	1-4-84
1	Confirmed .	27-1-85
11	Mr D Fitzpatrick	15-12-85
12	Mr J. W Neill, Offg	19-2-87
13	Mr A Mackenzie, C S I,	24-3-87
14	Mr. R. J. Crosthwaite	22-7-89
٠,۱	Mr. J. W. Neill, Offg	18-11-90
15	Mr A. P. MacDonnell, C S I	28-1-91
16	Mr J. Woodburn, C.S.I., Offg	26-5-93
	Confirmed	
17	Sir C. J Lyall, K. C S. I., C. I E	
18	The Hon. Mr D. C. J. Ibbetson, C.S.I	14-7-98
19	The Hon. Sir A. H. L. Fraser, K C.S.I.,	1
	Offg	
	Confirmed	6-3-02

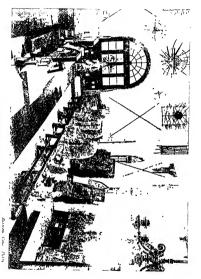
No	Name	Date of assuming charge of office
20	C. 1 E., Offg	16-9-02
31	Confirmed The Hon. Sir F S. P Lely, C. S I, K. G. I, E., Offg Confirmed	2-11-03 18-3-04
22 23	The Hon. Mr. J. O Miller, C. S. I The Hon Mr. S. Isinay, C. S I., Offg	23-12 04 4-5-05 27-7-06 to
24	The Hon. Mr. J. O. Miller, C S. I	21-10-06 22-10-06 to
25	The Hon Mr. F A. T Phillips, I. C. S	4-3-07 5-3-07 S p. t. to
26	The Hon Mr. R H. Craddock, C S. I	24-3-07 25-3-07

# ARCHÆOLOGY.

50. The oldest remains in the District are the circles Archmology.

of stones which are found in a number of villages 1 In many cases the stones are so small and the appearance of the circles so insignificant as not to attract attention unless specially looked for and though the circles have been recorded to exist in all the villages mentioned in the footnote, some of them may now have been removed or broken up. Ashes, chips of potterly, iron vessels and tools have been found beneath the stones and they are supposed by the people to be the encampments of a race of nomad shepherds. It is supposed that these may have been a bianch of the Scythian tribes who overtran India in the fourth and fifth centuries. The most important architectural monuments

<sup>&</sup>lt;sup>1</sup> Borgaon, Khapri. Ubji, Digras, Sawargaon, Junapan, Ghorar, Kohli, Nildhoa, Takalghat, Wathora.



7 %



are the temples of Rāmtek, which are described in the Appendix. There are a number of these, the most important being the shrines of Rāma and Lakshman on the crest of the hill; the latter contains an inscription of the 14th century. The whole area within a radius of ten miles of Rāmtek is held to be holy and there are Asht Tirtha or eight sacred places, which are all visited by devout pilgrims. Among these are Chakorda, Mansar and Nagardhan, whose tanks are sacred The District has a number of old temples, the principal heing at Adāsa, Ambhorā, Bhuigaon, Dhāpewāra, Jākhāpur, Kurādi, Kātol, Kelod, Pārseoni, Saoner and Umrer. The temple at Pārseoni belongs to the Jains.

There are few traces of Buddhist buildings, but the mound at Mansar not improbably consists of the remains of a monastery. Several villages contain the ruins of old forts. those at Nagardhan, Bhiwapur, Dongartal, Katol, Patansaungi and Umrer being the most important. In the Nagpur museum is a collection of sculptures obtained from several Districts including inscriptions engraved on stone slabs and copper plates. Among them is the Sitabaldi Sanskrit inscription of the 11th century recording the fact that Nagpur was then held by Ponwar Rajas, and some Muhammadan tombstones with Persian inscriptions removed from Sitabaldi fort. Near the flagstaff in the grounds of Government House he two guns which have been brought here from Asirgarh. The bronze gun is elaborately ornamented in relief with Persian inscriptions and scrollwork commencing at the muzzle. The inscriptions are as follows :--

'When the sparks of sorrow issue from me life deserts the body as grief falls on the world when flames issue from the fiery zone'.

Aurangzeh's seal with his full title.

'Abul Muzaffar Mohi-ud-Dīn Muhammad Aurangzeb Shāh Ghāzi'.

- 'Made at Burhanpur in the year 1074 A.H.' (A, D, 1663).
- 'The gun Haibat-i-Mulk' (Terror of the country)
  'In the rule of Muhammad Husain Arab'.
  - 'A ball of 35 seers and 12 seers of powder Shah Jahani weight'

The iron gun is named Kaduā Padmā (The Bitter Lotus) and has a Hindi inscription, giving the date when it was repaired (A.D. 1654). The Lukshman temple of Ramtek and the temples of Kelod and Dongartal also contain inscriptions. The first has been deciphered by Mr. Hin Lal and is referred to in the History of the Distinct, the

meaning of the other two is unknown

THE SANGAM OR RIVER-JUNCTION TEMPLES, NAGPUR



## CHAPTER III.

## POPIII ATION

## STATISTICS OF POPULATION

51. The area and population of the District in 1901 were

Statistics of area and population, density and distribution. 3840 square miles and 751,844 persons Nagpur now stands the thirteenth in area and fifth in population among the Districts of the

Central Provinces and Berär. It is divided into four tabsils, Nagpur lying in the centre, Katol to the north-west, Ramtek to the north-east, and Umirer to the south-east The figures of area and population of the four tabsils in 1901 are shown below.—

		Area	in square miles	Population	
Nägpur	•••		87 I	296,117	
Ramtek			1129	156,663	
Umrer			1040	136,476	
Kātol			800	162,588	

Rämtek tahsil is the largest in area and Nagpur in population, while Kātol has the smallest area and Umier the smallest population. The total density of population is 196 persons per square mile as against 120 for the Central Provinces and Berär, this being the highest figure of density in the combined Province. The rural density is 135 persons per square mile or somewhat higher than the average. Nagpur tahsil has naturally the highest total density with 340 persons to the square mule, but the rural area of Kātol is the most thickly populated with 170 persons, while Umrer has only 116. This last figure is due partly to the decline of population in Umrer between 1891 and 1901. The Kātol Station-house area contains 241 persons to the square mile excluding Government forest. As yet however the District is very far from having jeached the limit of population, as

though less than 70 per cent, of its residents are directly dependent on agriculture, the cropped area reaches the high figure of 2 acres per head. The District contains 12 towns and nearly 2300 villages, of which 1700 only are inhabited. The large number of uninhabited villages was thus explained by Mr. Rivett-Carnac 1 in Wardha .- Villages of this 'description are called masras. They are numerous and are 'sometimes marked by the sites of deserted houses, whose 'inhabitants have forsaken them to take up their quarters 'at some more favoured spot in the vicinity, from which 'they come daily to till the fields of the masra More 'generally however the uninhabited estates are the depen-'dencies or offshoots of some parent village, the cultivators of which, growing too numerous for the village fields, have 'extended the cultivation and broken up land in the vicinity.' Many villages also were deserted during the troublous times at the commencement of the century, and many more were thrown up by court favourites to whom they had been granted and who absconded after the peace of 1818

52. The following places were classed as towns in 1901. their population being shown in Towns and large brackets: - Nāgpur (127,734), villages. Kamptee (38,888), Umrer (15,943), (8732), Narkher (7726). Khāpa Kātol (7313), Saonei (5281), Kalmeshwar (5340), Mohpā (5336), Kelod (5141), and Mowar (4799) Of these towns, all except Kampiee, Kelod, Kātol, Mohnā and Narkher are municipalities, Kamptee being a Cantonment. The urban population in 1901 was 240,388 or 32 per cent. of that of the District, and was the highest in the Province The increase in urban population since 1891 was 10 per cent., and between 1881 and 1891 it was 7 per cent. The towns of Nägpur, Umrer, Rämtek, Kātol, Saoner and Mowār increased in population during the last decade, and the other towns showed a decline. In the five years since the census, most of the towns have an excess of deaths over births in the returns of vital statistics and in the case of Nagpur and Kamptee the decrease according to this test is very substantial. But it has probably been more than counterbalanced by immigration. Besides the towns no less than 26 villages contained 2000 or more persons in 1901, while 38 villages contained between 1000 and 2000 persons. This frequency of large villages is however an old feature of the District and has not arisen within the last few years. According to statements given by Mr. Craddock the population of the large villages had only slightly increased between 1866 and 1801, and he explains their origin as follows .- 'The administrative revenue unit was the pargana and the Kamaishdar or pargana officer ' drew together a small colony of officials, traders and artisans in the kasha or headquarters of his charge. The Pindari raids were a further inducement to the natels and ' cultivators of the surrounding country to collect in these ' kashas for purposes of protection, and in this way a practice ' sprang up which remains to this day for cultivators to 'live in the kasbā, and cultivate land in other villages for 'several m.les round. The movements of the population ' for the last thirty years have not been year marked, but 'there has been a tend cy for weavers to collect in their 'chief stronghold, for the bouring population to migrate to the large towns, and to a small extent for the agricul-' tural population to leave the kasba and settle in the village 'in which their lands are situated. For the cultivator's ' preference for living in a small town, in its origin the outcome of necessity, is now a luxury, and as the struggle ' for existence becomes harder, we shall see him more and 'more ready to live near his land,' As a general rule the small towns and large villages which are solely agricultural are declining in importance, but those which are layourably situated for trade or for the establishment of cotton factories are growing rapidly Excluding the towns the average size of a village in 1901 was 60 houses and 300 persons

Growth of population.

the differences in area at successive chumerations have generally been due to correction of survey. In 1866 the population was 634,000 and decreased slightly to 621.000 in 1872, on account of the emigration of Koshtis to Beiar, and of the scarcity of 1868-69. In this the Umrer tabsil suffered most. In 1881 the population had risen to 607,000 persons or by 104 per cent, on that Nearly half the increase was attributed to immiof 1872 gration induced by the construction of the railway and the growth of trade. In 1891 the population was 758,000. showing an increase of nearly 9 per cent on 1881. The largest advance took place in the Umrer and Nagpur tabsils. while in Ramtek and Katol the increase was only 64 per cent The decennial birth-rate between 1881 and 1891 was 41h per mille or slightly higher than the Provincial average, while the death-rate was 32 or a little less. In 1901 the population was 752,000, showing a decline of 6000 or nearly 1 per cent on that of 1891. The results of the census were . however very different in the four tabsils; the population of Katol increased by 31 per cent. and that of Nagpur by about h per cent : Ramtek showed a very slight loss and Umrer decreased by 81 per cent. Over the whole District the number of deaths exceeded that of births in every year from 1894-97 inclusive Cholera was prevalent in all these years and in 1895 an epidemic of small-pox also occurred. Nagpur was not severely affected by the famine of 1807 and a considerable proportion of the mortality of 50 per mille of population may be assigned to the immigration of starving wanderers from other Districts. In 1900, however, the District suffered severely, the death-rate being more than 57. During the six years from 1901 to 1906 the excess

of births over deaths was 17,000 and the deduced population at the end of 1906 was 769,000. The increase would have been considerably greater but for the mortality from plague.

54. In 1901, just over 86\(^1\) per cent. of the population

were shown as having been born within the District. Of 101,000 residents of Nagpur born outside the District, the majority came from Bhandara, Wardhā, Chhindwāra and Chānda. There were about 10,000 immigrants from the United Previnces and nearly 10,000 from Berar. Natives of Upper India are known locally as Pardeshis and a considerable number of

were about 10,000 immigrants from the United Provinces and nearly 10,000 from Berär. Natives of Upper India are known locally as Pardeshis and a considerable number of them are employed in the factories and iailway workshops. There is a fairly large emigration from Nagpur to Wardha and Berär, but these movements are, Mr Craddock thinks, largely of a temporary nature.

55 The following note on diseases prevalent in the

District has been furnished by Diseases. Lieutenant-Colonel Roe, I.M.S. Civil Surgeon The period from the beginning of April till the end of June is usually the healthiest part of the year. During July and August diarrhoea and dysentery are prevalent and cholera frequently appears at this time, from 3000 to 5000 cases of dysentery are treated annually in the dispensaries. Malarial fever rages from August to December, and for this disease the returns show an average of 50,000 admissions annually. Chronic malaria characterised by anæmia, enlargement of the liver and spleen, and fever of an irregular type is not uncommon throughout the District In this type of cases the spleen often obtains an enormous size. During the cold months of the year pneumonia and pleurisy are met with. In the case of children worms and diseases of the ear are common affections throughout the year In Nagpur itself, tubercular disease has in recent years increased to an alarming extent. In 1901 only 42 cases of this disease were treated, while in 1905 the numbers had reached 621. This is believed to result

from working in the factories and mills, the minute particles of cotton penetrating to the lungs of the factory hands and predisposing them to the disease. Leprosy is slightly on the decline, the last census report giving 400 males and 140 temales, or a total of 549 lepers as compared with 773 in 1891. The leper asylum, which has been established since 1001, contains 47 inmates.

- 50. The District suffers considerably from cholera and Cholera and amall-pox severe epidemics in which the number of deaths exceeded 1000 have occurred in 12 out of the last 36 years; the worst outbreak was in 1883, when the mortality was 5000 or 7°2 per mille, while in 1878 and 1900 the number of deaths exceeded 3000. Since 1900, however, there have been no serious visitations. Simall-pox has not decreased in Naggur to the same extent as in other Districts. Epidemics causing more than 1000 deaths have occurred in seven out of the last 36 years, and four of these have been since 1899. The worst outbreak was in 1889 when nearly 3000 deaths were reported. Vaccination has suffered considerably since the appearance of plague owing to the temporary migrations of the people.
- 57. Plague first appeared in epidemic form in 1890-1900. In which year it caused about 1000 Plague of ceaths, nearly all of which were in Năgpur. In 1902-03 a more severe visitation took place and 7500 deaths were reported, of which 6300 were in Năgpur. This was followed by another bad year in 1903-04, causing nearly 18,000 deaths or 4 per mile of population. Of these, 8000 were in Năgpur and 3700 in Kampte. In the next year the disease was practically absent from the large town, but 1400 deaths occurred in the smaller towns and villages. In 1905-06, there was another severe outbreak and more than 6000 deaths were recorded, of which 4600 were in Năgpur.

The mortality from plague is generally greatest in the first four months of the year, and next to this in the last

four months, while between May and August it is yeav small. As it commonly appears in August or September, the infection spreads gradually and the mortality rises three or four months later. It has been found that when the mean temperature goes above 80° to 85,0 plague practically ceases. In 1906-07 a vigorous campaign tot the slaughter of rats was inaugurated by the Deputy Commissioner, Mi Dewar, and the Civil Surgeon, Major Buchanan. About 100,000 rats were killed, and the results appeared to show that substantial results were achieved in preventing the spread of the disease Between August 1906 and March 1907. less than 8000 deaths occurred, though the disease appeared in most of the towns and large villages. And, moreover, the highest mortality was in September and October, and the epidemic declined in November and December instead of following the normal course of increase in virulence.

58. In 1901, a proportion of 58 per cent, of the total population were supported by pasture and agriculture as against the provin-

cial figure of 724. Landowners numbered 23,000 or 4 per cent of the population, tenants 150,000 or 25 per cent and labourers 194,000 or 26 per cent. Another 23,000 persons or 3 per cent of the total are returned as being supported by earth-work and general labour About 25,000 persons or 3† per cent. are supported by personal, household and samtary servaces. These are principally but bers, cooks, indoor servants and washermen. The number of door-keepers or chauktādārs is the highest-lin the Province. Water-carriers, however, are less numerous than in the northern Districts, as a separate servant is not usually employed for this purpose. About 43,000 persons or nearly 6 per cent of the population deal in food, drink and stimulants, the most numerous classes being fishermen and fish dealers, and oil-pressers and sellers. Vegetable oil is more

<sup>&</sup>lt;sup>1</sup>In the statistics given in this paragraph, persons dependent on each occupation are included.

commonly used for food in the southern Districts than in the north Occupations returned under textile fabrics and dress support 86,000 persons or 11 per cent of the population, this proportion being the highest in the Province. Of these, 13,000 are engaged in the silk trade and 62,000 in the cotton trade including 9000 workers in factories with their dependents In 1901 the mining industry was insignificant, but the latest teturns show 2345 persons engaged in this calling less than 10,000 persons or nearly 11 per cent. of the population are shown as supported by banking and moneylending, while of 14,000 persons engaged in transport and storage, nearly 4000 belonged to the railways. 8000 persons were maintained by Government service, excluding the forest, medical and public works departments. Of these 5000 were in menial service. About 4500 persons were supported by music, acting or dancing and nearly 12.000 or more than 14 per cent, of the total were beggais. Nearly 4000 persons were engaged in religious services. About 3000 were pensioners, this being much the highest number in the Province, and 962, including dependents, were medical practitioners without diploma.

59 The principal language of the District is Marathi, which is spoken by just over three-fourths of the population. The form of the language known as the Nagpurf dialect is in general use, it differs in a number of points from the pure Marathi of Poona, but resembles in all essential points the dialect of Berar, which was formerly distinguished from it under the name of Berari. The Koshits have a jargon of their own, differing slightly from ordinary Nagpurf. Hindi is returned by 70,000 persons or 9 per cent of the population. The Bundeli dialect of Western Hindi is the basis of the Nagpur form of the language, but as used in the town being inseed up with other forms of Hindi and with Marathi

<sup>1</sup> From Dr. Grierson's Linguistic Survey of India, Vol. VII.

in indescribable confusion. The number of Urdia of Hindustan speakers is 38,000, being the highest in the Frounce. The bulk of the Muhammadans return themselves as speaking Urdia. Gondi is returned by 41,000 persons or 5 per cent of the population, nearly all the Gonds are still shown as speaking their tribal language. Owing to the large mixed character of the population of Nagpur, languages of other Provinces or of foreign countries are returned in more strength than in other Distincts. There are 9000 speakers of Telugu, 3000 of Tamil, 3000 of Marwari, 1500 of Gujarati and nearly 3000 of English; and other tongues recorded in the census tables are Bengali, Punjabi, Afghāni, Burmese, Persan, French and Portuguese.

- 60 The statistics of religion show that Hindus con-Statistics of leligion strictine 88 per cent of the population, Muhammadans 5 per cent. ABI Zoroastrians and 6163 Christians.
- 61 The antagonism between Vaishnavism and Shaivism populai religion is more apparent here than in other Districts of the Province.

  Even small children having sectarian marks on the forehead are commonly seen in the streets. The reason seems to be that the District contains many immigrants from Southern India, where a Shaiva will neither due not intermarry with a Vaishnava. The men now show some tendency to modify the acerbity of these teligious prejudices, but the women still zealously uphold and practise them
- 62 Among the village detites the most popular is

  Village gods,

  Hanuman, or, as he is locally

  termed, Marotti, His image of a

  monkey coloused with vermilion with a club in one hand
  and a mountain in the other is placed on the boundary of
  villages, and is known as Vir mārit (the image of

  strength). His representation in another form with folded

hands is known as Das märte (slave image) and is placed in subordinate hamlets. Mahädeo or Siva is generally revered in this District in his incarnation as the warrior Khandobā attended by a dog. Khandobā guards the country as Bhaniava guards the village, and is shown as a horseman with a sword in his right hand and his wife sitting beside him. He is the patron deity of the Maistha caste, who worship him every Sunday, placing ince and flowers before him. The dog is held as sacred by the Marathāa who will not nume it

The goddess Kali, the wife of Siva, is worshipped in the local incarnation of Mata Mai, the deity representing the dreaded disease of small-pox. She is represented by a stone daubed with vermilion and on each side of her are trisfile (tridents) surmounted by flags. To the trident is attached an iron chain, which is known as the chābuk or whip of the goddess People possessed with evil spirits are beaten with this chain, so that the spirits may be driven out of them If a patient is severely attacked by small-pox, a yow is made to offer the sigdi worship. The sigdi is an ' earthen vessel filled with burning charcoal and is placed on the head of a married woman, whose hands are fied in front of her as she goes in procession to the shrine, accompanied by other married women bearing brass pots of water on their heads. The way before them is swept with branches of the nim tree (Melia indica), which is sacred to the goddess. When the patient has recovered he also walks in the procession. On arrival at the shine music is played and the neighbours all come and put a little grain in the lap of the woman who has carried the stadi. Offerings are made to the goddess and a sacrificial goat is led before the image and bathed. If it shakes its body when water is poured over it, it is considered that the goddess has accepted the offering. A similar test was used by the ancient Greeks, and Romans. A clay horse is also offered, perhaps in substitution for the former sacrifice of a real one. Naram Deo or the sun-god is worshipped by Mahais, Dhimars and Mangs. Two young pigs are constrated and fed profusely till they are three years old. When the offering is to be made, the Mahars, Dhimars, Gonds, Gowaiis, Chamais and Mangs are invited to the feast and all sit together. They wash their hands and feet with water taken from the same pot, and after the pig has been saciified to Naram Deo, consume it in company. As soon as the cock crows in the morning the feast is stopped, and caste distinctions are resumed.

63. Muhammadans number nearly 43,000 persons. They include about 2000 Shiās and the Muhammadans remainder are Sunnis The Sunnis support an Anjuman Islamia or private school where their children are taught up to the middle school standard and also instructed in their religion About 27,000 of the Muhammadans live in Nagpur and Kamptee The Muhammadans have come from all directions, some from the Delhi country, some from Berär and the west, but probably the greatest number from the Nizām's dominions in the south. Only a very few families date their first settlement in the District as far back as the commencement of the 18th century and the bulk of them came during and after the Maratha occupation. Many of them are descendants of officers in the Bhonsla and English Armies, and some, Mr Craddock remarks, of illegitimate children of the Rājās and Marāthā nobility, who have no doubt turned Muhammadans to improve their social position. The leading families are those of the Gond Rājā Azam Shāh and of Hakim Saiyad Bunyad Husain. The high-class Muhammadans, Mr. Craddock remarks, have notions about then former distinction which effectually bar the way to present prosperity. Like the Marathas many of them have lost their ancestral property or are struggling to keep up appearances on an attenuated pension But those less hampered by past dignity have been more successful, some

taking to trade and others acquiring landed property and managing it well. Many Muhammadans are employed in the police and in the subordinate ranks of Government service. As clerks, they cannot compete with the Hindus. but in executive posts they more than hold their own The Muhammadans are backward in education and easily spoilt by prosperity. They contribute quite their fair share to the cuminal classes. But as a class they are more united than the Hindus, and the efforts of the better educated to amprove the condition of their community extend to the very poorest. The followers of this religion include a class of artisans, puncipally Momins of weavers, and Piniagas, or cotton-cleaners. The Momins belong chiefly to Kamptee and weave coarse cloth. They are poor and ignorant. The Pinjaras have generally found their occupation gone with the establishment of ginning factories, and have taken to cultivation and petty trade Many of this class are converts from Hinduism, and the respectable Muhammadans do not intermality with them The rural Muhammadan, Mr. Craddock says, is more than three parts a Hindu.

community, which is located at The Mehdibag Institu-Mehdibäg and is commonly known as the Mehdibag Institution. Its members are Daudi Bohrās of the Shiā sect. and are distinguished by the long white lobes which they always wear The sect was founded in 1891 by a young Bohia of Bombay and its present head, Mr. H. M. Malak, was selected by him. as his successor. The members live together in the buildings of the institution in the Mehdibag suburb of Nagpur, where their children are also brought up and educated Their property is held jointly and the management is entrusted to their priest and leader. The community is to some extent esoteric and its writings are not made public, but general religious teaching is its principal tenet, and the members assemble daily for a considerable time to hear

A notice may here be given of the Atba-e-Malak

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their faith expounded and receive instruction in it from Mr Malak. Women are educated and taught suitable accomplishments. Except in the above points they do not seem to differ from ordinary Shas. Commercially the institution is quite successful. It owns a well-known shop for hardware and fancy goods in the town, and the village of Umrei and its assets amount to more than a lakh.

65. The number of Jams has decreased from 141 m 1891

Juns and Pares

to 2675 m 1991

The Jams are

nearly all Marwari Banias and are
engaged in trade and banking. But a lew Kalars also
return this religion. The former hostlity between Jams and
Hindus has nearly vanished, but they do not intermarry in the
Central Provinces, though they may take food together. The
leading characteristic of the Jam religion is the extraordinary tendenness for animal life, in which respect it surpasses
all others. Like other Banias the Jams do not as a rule
give their children at English education, and among the
higher classes of the native community they are the most
outhodox, and are practically unaffected by the modern
tendency to the abolition of caste restirctions.

The Paisis have increased from 376 to 481 during the last decade. They are enterprising traders, and the bulk of them are employed in the mills and factories. The Parsis have adopted English education and habits with avidity, and this gives them an advantage over the Bannias, as they will engage in any kind of business that comes to hand, such as shop-keeping, liquor-contracts and the timber trade, to which the Marwaris are unable to adapt themselves. At present the Parsis base their manner of life very largely on that of the English. Their women are the best educated in India after Europeans and Eurasians, are in no way secluded, and do not marry as a rule till after they are sixteen. But this is quite a modern development and may be attributed to the intelligent appreciation of English habits. Fifty years ago they would not eat food

touched by one not of their own religion, their women were secluded and not allowed to appear in public, and neither men not women would wear English boots or shoes. 'The first notable public gathering in which Pärsi' ladies appeared was witnessed on the occasion of the 'festivities attending the birth of the late Prince Albert 'Victor. An entertainment to the school children of the 'town was given in the esplanade in Bombay, when a number of respectable Pärsis appeared with their wives and walked aim-in-aim with them. The sight created 'quite a sensation'. The Pärsis still offer food to the spirits of the dead

66. Christians numbered 6163 in 1991, of whom 2870 were Europeans and Eurasians and Christians 3293 natives The number of native Christians had increased by nearly 1000 since 1801. The distinction between Europeans and Eurasians in the census tables is valueless, but since 1901 both classes have certainly increased considerably in numbers. About half the Eurasians are in railway service and the large majority of the remainder in Government service. None are returned as without occupation. Distributed by sect 1460 of the Christians belonged to the Anglican Communion, 876 were Presbyterians and 3600 were Roman Catholics. The high number of Presbyterians was partly due to the presence of a Scotch regiment in Kamptee Nagpui is the headquarters of an Anglican diocese which was founded in 1902 and consists of the Nagpur and Chhattisgarh Divisions of the Central Provinces. To this, by commission from the Bishop of Calcutta, the Saugoi and Nerbudda Divisions of the Central Provinces are added. The Bishop of Nagpur. has also the episcopal oversight of the Berais, Central India, Rainutana, and Aimer-Mei wara. The Bishop, the Archdeacon and a Chaplain are resident at Nagpur and a Chaplain at Kamptee. The Church of All Saints Nagpur is the Pro-Ca-

t K. N. Kabrāji in Indian Antiquai y 1904, page 66.

RELIGION

thedral Church of the diocese. Those is also a church at Kamptee, and various funds are raised for the relief of the poor and other objects. Nagpui is also the headquarters of a Roman Catholic diocese which extends over the Central Provinces and Berär, excluding Saugor, Damoh, the Bastar, Kalahandi and Patna States, and the south of Chanda, and takes in the part of the Hyderabad State north of the Goddwait. The Catholic population of the diocese is 12,000.

67 Missionary work is carried on by the Roman Catho-

Christian Missions and Catholic. lic, Scotch, Anglican, and Methodist churches. The Catholic Mission

was started from Savov in France in 1846, the headquarters being fixed at Kamptee, where the first church and schools were built in 1852. In 1870 the St Francis de Sales' school was built at Nagpur and the centre of the mission was transferred there. The diocese was established in 1887. The clergy in the District number 17, of whom 14 are French priests and 3 natives. There are also 30 French nuns of the order of St. Joseph, and 17 Catechist ladies of whom 14 are French and 3 natives of India. The mission support the St Francis de Sales' College at Nagpur for European and Eurasian boys affiliated to the University, two Convent High schools for European and Eurasian girls at Nagpur and Kamptee; a High school for native boys, and Marathi, Tamil and Christian schools for guls maintains a poor asylum and foundling home at Nagpur, and an orphanage for European and Eurasian boys; an orphanage at Kamptee; and an agricultural estate and technical school at Thana in the District It has six churches for public worship

68. The mission of the United Free Church of Scotland
is named after the Rev Stephen
Hislop, whose name is well known
for his geological and ethnographical rescatches in the country round Nagpur It
maintains the Hislop College with the assistance of a

grant from Government, and High, middle and primary schools in connection with it; schools for low-caste native boys at Nagpur and various places in the interior, a large orphanage and boarding-house for Christian girls and four girls' schools, and the Mure Memorial Hospital. It also carries on Zanāna mission work from house to house. All treatment at the Mure Hospital is free and it icceives no grant from Government; the patients number about 6000 yearly and it is in charge of a qualified. European Lady Doctor. The Methodist Episcopal Mission has churches at Nagpur and Kamptee in charge of European Missionanes, and vernacular boys' schools at Kamptee and Ramtek. The Central India Mission of the Church of England was established in 1870. It has about 130 native converts and supports a boys' school.

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69. The most numerous castes in the District are the Kunbis constituting 20 per cent Principal castes. of the population, and the Mahars or Mehras 16 per cent. Brähmans are the largest proprietors and own 750 villages or a third of the total number, and next to them come Kunbis with 440. The bulk of the population are of Maratha extraction, but in the north of the District there is a fair sprinkling of Hindustani castes, Kirars, Lodhis and Raghvis, who have come down from the Satpura plateau, and these are the best agriculturists. Gonds are the only forest tribe, constituting 6 per cent, of the population, but many of them have taken to work in the mines, and as coolies and porters in towns, and except in feature are hardly distinguishable from Hindus. remainder live principally in the tracts adjoining the Satpura hills to the north

70 The Brähmans number 23,000 01 3 per cent. of the population The bulk of them are Maratha Brähmans of the Deshasth subcaste. whose home is Poona country above the Western

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Ghais, as distinguished from the Konkanasths who belong to the Bombay Concan or littoral, and the Karbades from Satāra and the north Intermatriage was formerly prohibited among these subcastes, but now occasionally takes place between Deshasths and Konkanasths The Brahmans, however, have a further division into sects, according to the Vedas from which the prayers which they recite are taken. The two sects of the Rigvedis and Yajurvedis are found in the District and the latter are further subdivided into the Apastambhas of black Yaiutvedis and the Madhvandin or white Yaiurvedis. Mariage between these sects is prohibited, except that the Rigvedis sometimes marry with Apastambhas. The Deshasths are generally Rigvedis The Rigvedis must move their heads when they recite the Vedic prayers, while the Yajurvedis move their hands up and down and from side to side, keeping their heads still. The Riggedis pronounce S and blas S, and the Yajurvedis pronounce them as kh. Many Brahmans will give this sect division as their subcaste and scarcely know then real subcastes.

71 Matatha Brahmans generally use three names, then own Christian name, their father's, and their surname. They have also a gotra or exogamous group, but the gotras are few in number and consequently make very large groups. The gotra is named after a Rishi or saint of Vedic times, from whom all its members are supposed to be descended.

Marriage is primarily prohibited among members of the same gabra, but people having the same family name usually belong to the same gabra and therefore cannot intermaily. A Frahman has also a ceremonal name determined by the constellations he was born under. But these are compounded of syllables representing each constellation or conjunction and the resulting name is often uncouth or incongruous to Hindu ears. The Christian names are usually taken from those of detties, and as each important detry is known

by several synonyms there is plenty of variety. Vishnu is supposed to have a thousand names, being called by a separate one in each important mythological incident in which he took part. The family names fall into several categories. Some are taken from the names of offices as Fauidar (general). Sılladaı (cavalry leader), Sübhedar (governor), Farnavis (accountant), Ratnapärkhi (assayer of jewels), Jamdar (keeper of the king's wardrobe), others from religious functions as Dikshit (one who performs the ceremony of initiation), Agrahotri (priest of the Vedic fire-sacrifice1), Pathak (reciter), Joshi (astrologei), Vaidya (physician), Purohit (priest), Upādhye (teacher); Pujari (worshipper), others are from the names of places or the homes of the family and these usually have the affix kar as Indukar (of Indore), Digiaskai (of Digras), Dongte (hill-dweller), Chandekar (from Chanda), Bhandakkar (of Bhandak), Pohankai (of Pohona), while among miscellaneous names are Baghmaie (tigei-killer), Tamhan (a small copper dish used for the daily Sandhya worship), Diwakar and Bhaskar, both meaning the sun, Khond (the bullock's hump), and Bhakie (from bhakar, bread).

In the northern Districts a man of another caste meeting a Bildhmah will say 'Pan-lagan' (I bow to your feet), but in Nagpur he only gives the ordinary salutation of Ram, Ram 72. Mr Craddock describes the Maratha Brahmans

Character of Brahmans, as follows — 'As traders, money'lenders and lawyers, the Brahmans

<sup>&#</sup>x27; are most successful, but as landlords they fail far below ' the ideal standard. As clerks and officials they are second ' to none, and they almost monopolise the subordinate ap-

pointments in Government service. An outsider in an office
 largely manned by Marāthā Brāhmans stands a very small
 chance of success; every slip he makes is at once brought
 to light; while the faults of members of their own community

<sup>&#</sup>x27; are carefully glossed over Excellent judges of character

<sup>&</sup>lt;sup>1</sup>Fire for this sacrifice is obtained by friction of two pieces of wood. The Agnihotris have the upper lip shaved.

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themselves, they are past masters in concealing their own thoughts. Their abhorrence of practical and mechanical works also beginning to give way. Brāhmais have become thoroughly practical as well as scientific agriculturists, and have also taken to engineering and other professions.

73 The Marathas number 11,000 persons and hold 260 villages, of which 143 belong to the Bhonsla family and their relatives

Mr. Craddock remarks of them - 'Among the Marathas a 'large number represent connections with the Bhonsla ' family, related by marriage or by illegitimate descent to that house. A considerable proportion of the Government 'political pensioners are Marathas. Many of them own ' villages or hold tenant land, but as a rule they are extra-'vagant in their living, and several of the old Maratha ' nobility have fallen very much in the world Pensions ' duminish with each generation, but the expenditure shows ' no corresponding decrease. The sons are brought up to no ' employment and the daughters are married with lavish pomp ' and show. The native army does not attract them, and but few are educated well enough for the more dignified ' posts in the civil employ of Government. It is a question ' whether their pride of race will give way before the necessity of earning their livelihood soon enough for them to ' maintain or regain some of their former position, other-' wise those with the largest landed estates may be saved 'by the intervention of Government, but the lest must ' gradually deteriorate till the dignities of their class have become a mere memory The humble members of the ' caste find their employment as petty contractors or traders, ' private servants, Government peons, sowars, and hangers-' on in the retinue of the more important families,'

The Marathas are a caste formed from military service, and it seems probable that they sprang mainly from the peasant population of Kunbis, who took to arms and followed Sivaji in his guerilla warfate against the armies of Autangzeb

Some of their chiefs have the names of Rapput septs, and lay claim to this ancestry, but it is highly improbable that they can be of anything like pure blood In 1836 it is stated 1 that the Rana of Udaipur was satisfied from enquiries conducted by an agent that the Bhosles and certain other Maratha families were of pure blood On the other hand in Bombay the Marāthās take daughters from the Kunbīs in marriage for their sons, though they do not give their daughters to the Kunhis But a Kunbi who has got on in the world and become wealthy may by a sufficient payment get his sons married into Maratha families and be adopted as a member of the caste. In the Central Provinces the Marathas are divided into of exogamous clans which marry with each other, But the Bhonsle Rājās selected seven of the highest clans including their own, and confined their alliances to these. The names of these clans are, Bhosle, Güjar, Mohte, Sirke, Mahādik, Palke and Ahirrao Now that the authority of the ruling chief has been removed, this arrangement, though still commonly observed, has in some cases been violated. The Marāthās proper seclude them women, do not permit them to wear silver ornaments on the arms or to spin cotton, and prohibit widow-marriage. But there is one subcaste, the Deshkars, apparently outside the 96 clans, who do not observe these rules, and are in consequence considered lower than the others. They are probably a section of the caste, which settled in the Central Provinces before the acquisition of Nagpur by the Bhonslas Marathas commonly wear a turban made of many folds of cloth twisted into a nairow rope, and large gold rings with pearls in the lower part of the ear.

The following description of the Maratha cavalry is

Description of Maratha cavalry given in General Hislop's Summary of the Maratha and Pindari Campaigns (1817-1810).—

'The Marāthās possess extraordinary skill in horseman-'ship, and so intimate an acquaintance with their horses,

<sup>1</sup> Bombay Census Report (1001), pages 182-8c.

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' tull speed, in halting, wheeling etc , they likewise use the spear with remarkable desterity, sometimes in full gallon. verasning their spears short and quickly sticking the point in the ground still holding the handle, they turn their horse suddenly round it, thus performing on the point of a spear as on a pivot the same circle found and found again. . Their horses likewise never leave the particular class or ' hody to which they belong, so that if the rider should be knocked off, away gallops the animal after its fellows. ' never separating itself from the main body. Every Maratha brings his own horse and his own arms with him to the field, and possibly in the interest they possess in this private equipment we shall find their usual shyness to expose themselves or ever to make a bold vigorous attack. But if armies or troops could be frightened by appearances these hordes of Marathas would dishearten the bravest actually darkening the plains with their numbers and · clouding the houzon with dust for miles and miles around A little fighting however, goes a great way with them ' as with most others of the native powers in India ' 75. The Kunbis number 152,000 persons and hold 440 villages Mr. Craddock remarks of Konbi them :- 'To the outside world the ' Kunbi is regarded as the embodiment of the agriculturist ' and the term Kunbi has become the generic name for a ' professional cultivator. He is certainly a most plodding. ' patient mortal with a cat-like affection for his land, and the proprietary and cultivating communities of both of ' which Kunbis are the most numerous members, are un-'likely to fail so long as he keeps these characteristics.

that they can make these animals do anything, even in

Some of the more intelligent and affluent of the caste, who have lisen to be among the most prosperous members of the community, are as shrewd men of business in their way as any section of the people, though lacking in education. But of the general body of the Kunbī caste it is

true to say that in the matter of enterprise, capacity to 'hold then own with the moneylender, determination to 'improve their standard of comfort or their style of agu-' culture, they lag far behind such cultivating classes as the · Kırar, the Raghvi and the Lodhi While, however, the ' Kunbi yields to these classes in some of the more showy ' attributes which lead to success in life, he is much their ' superior in endurance under adversity, he is more law-' abiding, and he commands both by reason of his character ' and his caste, greater social respect among the people 'at large. The wealthy Kunbi proprietor is occasionally 'rather spoilt by good fortune, or if he continues a keen ' cultivator, is apt to be rather too fond of land-grabbing. ' But these are the exceptional cases, and there is generally ' no such pleasing spectacle as that afforded by a village in ' which the cultivators and the proprietors are all Kunbis ' living in harmony togethei '

The Kunbis have several subcastes, of whom the Tiroles are the highest. These generally held the offices of Deshmukh under native rule, and the Deshmukh families have taken to marrying among themselves and prohibiting widow-marriage. They say that the name Tirole comes from a place Therol in Rajputana, from which they immigrated, but another theory is that it is derived from their cultivation of the til plant The Manes and Dhanoies are the lowest subdivisions. The Manes appear to be Manas who have become Kunbis; they do not employ Brahmans at their mainages, but consult a Mahar Mohturva or soothsave: to fix the date. and the other subcastes will not eat with them. The women wear their cloths like Gonds, exposing the left leg above the knee The Dhanojes are probably an offshoot from the Dhangai caste of shepherds, the name being derived from dhan, a flock of sheep or goats. The Baones take their name from the term Bawan, formerly applied to Berar, because it paid 52 lakhs of revenue as against only 8 lakhs supplied by the Ihari or hill country; and the CASTE 81

Khaires from their occupation of boiling catechu from the bark of the khair tree The Dhanoie and Mana women wear cocoanut shell bangles and do not break these on the birth of a child, they are therefore looked down on by the other subcastes, who refuse to remove then leaf-plates after a feast. Currously enough in the Tirole and Wandhekai sub-castes, which are the highest, the keeping of a woman is not an offence entailing tempolary exclusion from caste, whereas among the lower subcastes it is. The great festival of the Kunbis is the Pola day, on which they have their procession of bullocks. An old bullock goes first and on his houns is tied the makhar, a wooden frame with pegs to which torches are affixed is said that the Makhar bullock will die within three years. Behind him come the bullocks of the malguzars and then those of the tenants, in order of their standing in the village and of the traditional position held by their families. A Kunbi feels it bitterly if he is not given what he considers to be his proper rank in the procession 76, 'The Kuars, Raghvis and Lodhis,' Mr Craddock

76. 'The Kuārs, Raghvis and Lodhis,' Mr Craddock lemarks, 'are exceptionally good cultiting castes.' 'vatois, and represent the immigrants 'from Hindustan as distinguished from

the Kunbis who are immigrants from Mahārāshtra They are very industrious, yet fond of luxury, but the

'good qualities of the first two are somewhat spoilt by their persistent untruthfulness and of the last by their

turbulent characteristics. The Kirais are concentrated in the rich wheat country of the Tharsa plain, and the Raghvis

' in the most fertile tracts of the Saoner and Waikher country,

' their pushing character being reflected in the kind of country

which they have occupied. One will rarely find them cultivating poor soil, and the large colonies have always found

'their way to the richest sites.' The Raghvis are the Raghuvansis of Chhindwara. Though of Rajput descent, they are of mixed blood, and have split off into a separate caste, marrying among themselves. Their origin however is still plainly discernible in their height, strength of body, and fair complexion. They have split off into a sect of their own and have gurus or prests of their own caste, discarding Brahmans. Their names end in Deo, Mr. Ciaddock continues:—'Whatever may happen to other classes the Raghvi will never give way to the moneylender, though he is fond of comfort he combines a good deaf of thrift with it, and the clanush spirit of the caste would prevent any oppression of Raghvi tenants by a landloid or 'moneylender of their own body.

'The Kitars cannot show such a good record and include in their numbers some of the most tyrannical landlords in their numbers some of the most tyrannical landlords. The life birstnet. They are much given to display. The richer among them are heavily weighted with jewellety, while the well-to-do Kirar tenant will think nothing of spending Rs. 1000 on his dwelling house or a maliguzar 'Rs. 5000. Extravagance ruins a great many of the Kirar community, and they have no compunction about preying on each other. Still, with all their faults, they take a high place among the cultivators of the District, a position which would be impossible if they had no compensation virtues.

'The Lodhis, as I have said, are good cultivators and generally men of strong character, but their constant family feeds and love of faction militate against their prosperity. A cluster of Lodhi villages forms a hot-bed of strife and the nearest islations, are generally divided by there autimosities. The Revenue Officer who visits them is beset by reckless charges and countercharges and no communities are less amenable to conclustory compromises. Agrarian outrages are only too common in some of the Lodhi villages.'

77. Among the atusan castes the principal are the Koshtis

Koshti. who produce the finer kinds of cotton cloth. They number 44,000 persons 676 per cent. of the population and reside generally

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in Nagpur, Umrer and the other smaller towns. Members of the caste own 17 villages The description of the caste is reproduced from the Nagpur Settlement Report 'Koshti is an inveterate grumbler and indeed from his ' point of view he has a great deal to complain of. On the one hand the price of raw cotton and the cost of his living 'have increased very largely, on the other hand the product of his loom commands no higher price than it did 'before, and he cannot rely on selling it when the market 'is slack. He cannot adopt himself to the altered environments and clings to his loom. He dislikes rough manual 'labour, and alleges, no doubt with truth, that it deprives 'him of the delicacy of touch needed in weaving the finer cloths If prices use he is the first to be distressed, and on reliei works he cannot perform the requisite task 'and has to be treated with special indulgence. The 'mills have been established many years in Nagpur, but very few of the older weavers have sought employment there. They have begun to send their children but work at home themselves, though they nearly all use 'machine-spun yarn. The Koshtis are quarrelsome and 'addicted to drink, and they have generally been the chief 'instigators of grain riots when prices rise. They often 'marry several wives and their houses swarm with a pio-'postionate number of children. But although the poorer ' members of the community are in struggling circumstances. ' and are put to great straits when prices of food rise. those ' who turn out the finer silk-bordered work are fairly pros-'perous in ordinary times' The silk-bordered dhotis or loin-cloths made in Umrer are sent to all parts of India. and it is estimated that the annual sales of these cloths all over the District amount to Rs. 5 lakhs. The silk used is dyed locally by Patwis, a small and fairly prosperous caste.

Though riotous, the Koshtis are not physically strong or biave, and in some places they will not join in a beat

for tige1, because they think that the tiger will single out any Koshti from among the beaters and devour him. They are a religious caste and are divided into numerous sects Some are Kabirpanthis, others Lingayats and Sivites Napour they have two or three other sects, one of which consists of the followers of a local saint Koliba Baba hved in Dhanewara and various miracles are related of him. as that he raised a Biahman from the dead in Umier, and changed the contents of a number of brass vessels from water into curds to convince the unbelieving Brahmans The Koshtis believe, or did till recently, that the posts to which the loom-frame is fastened are enchanted, and that anyone who touches them with the leg will get ulcers up to the knee As already stated they marry a number of wives to obtain their assistance in spinning-work and in the preparation of the frame of the warp. Without several assistants a weaver's business does not pay at present. and a wife is really a factory hand. Well-to-do Koshtis buy or occasionally steal as many women as they can, and cases in which wives are sold or mortgaged are by no means unknown. Cases of assault and not are of frequent occurrence.

78. The Mahārs are the menial and servile caste of the District, and form about a sixth of the population 'Looked' down 'upon as outcastes by the Hindus, they are hampered by 'no sense of dignity or family prejudice. They are fond 'of drink but are also hard workers They turn their hands to anything and everything, but the great majority 'are agricultural labouiers. At present the rural Mahār' is in the background. It there is only one well in the 'village he may not use it but has to get his water where 'he can. His sons are consigned to a corner in the village 'school and the school-master, if not superior to caste 'prejudices, discourages their attendance. Nevertheless

<sup>1</sup> Nagpur Settlement Report, para 58

'Mahâis will not remain for years down-trodden in this 'fashion and are already pushing themselves up from this state of degradation. In some places they have 'combined to dig wells and in Nagpur have opened a 'school for members of their own community'. Occasionally a Mahâr is the most piosperous man in the willage. Several of them are moneylenders in a small way and four are malguzārs.

### SOCIAL LIFE AND CUSTOMS

79 Numerous differences may be noticed in the social rules and practice of the Marāthās Manners of the Mari- and the people of Northern India Sii R, Jenkins remarked of the people - The most remarkable feature perhaps in the 'character of the Marathas of all descriptions is the little 'regard they pay to show or ceremony in the common inter-'course of life A peasant or mechanic of the lowest order. 'appearing before his superiors, will sit down of his own 'accord, tell his story without ceremony and converse more 'like an equal than an interior, and if he has a petition to 'present he talks in a loud and boisterous tone and fear-'lessly sets forth his claims. Both the peasantry and the better classes are often coarse and indelicate in their lan-'guage, and many of the proverbs which they are fond of 'introducing into conversation are extremely gross. In 'general the Marathas, and particularly the cultivators, are 'not possessed of much activity or energy of character but they have a quick perception of their own interest, though 'their ignorance of writing and accounts often renders them 'the dupes of the artful Brahmans.' Among the Marathas the purdah system is not in vogue, and the wives even of Maratha Brahmans may go about unveiled. The women of the household exercise a considerable influence and their opinions are treated with respect by the men. Several instances occur in Maratha history in which women of high rank have successfully acted as governors and administrators. In the Bhonsla family Princess Baka Bai, widow of Raghuji II, is a conspicuous instance, while the famous Raini of Jhānsi is another case of a Marathā lady who led het troops in person, and was called the best man on the native side in the Mutmy Here as elsewhate however the women are a strong conservative force, holding to the old deities and the strict observance of religious ceremonial, which the men with modern education are inclined more and more to discard owing to the large expenditure of time and trouble involved in its performance. Education has as yet made little progress among women, but a demand has risen among educated young men for a wife who can afford a larger measure of companionship to her husband, and this is likely to be a strong influence in its favour

beginning of the nineteenth century as follows:—'The females, both of times as follows:—'The females, both of the have, generally speaking, when their husbands are princes or chiefs, great influence, and mix sometimes personally in affairs of State. If mairred to men of rank they have usually a distinct provision and estate of their own; enjoy as much liberty as they can desire; seldom, if ever, wear

Malcolm 1 described the Maratha women at the

friends on births and marriages, and on patitudiar anniversanes. They also expend much money on jewels and cloths, and even the poorest of this class has a set of onnaments. The higher orders of women, both Brahmans and Sndras, are remarkable for their devotion, or rather superstitution; and often become, from their weakness

'a veil: and give feasts and entertainments to their

in this respect, the dupes of religious impostors. Ladies of the ruling families are usually instructed in reading, writing and arithmetic. The management of the house

always constitutes part of their education. The Maratha

<sup>1</sup> Memoir of Central India, II, pp. 119 to 121.

'ladies of rank may generally be described as deficient in regular beauty, but with soft features and an ex-' pression that marks quickness and intelligence. Though 'almost all, when called forth, have shown energy and 'courage, and some of them great talent, yet it must be ' contessed that few classes of high females exhibit more examples of shameless licentiousness than are to be 'tound among these Maiatha Bais or princesses, whom circumstances have freed from the common restraints which the laws of society in India have imposed upon The poorer Maratha females are the com-' nanions of their bushands in their labours and their ' dangers, they are generally hard-favoured from constant 'exposure, and from leading a life of toil and vicissitude, 'They have the reputation of being faithful wives and good f mothers?

There are no grounds for supposing that Malcolm's remarks on the moral character of the women hold good at present. The art of horsemanship also has largely died out both among men and women

81 Among the Maratha castes women accompany the marnage procession, while in the mothern Districts, Bands are the only caste of any position who

allow this custom. Statistics show that girls are married at a very early age in the Marathā Districts, but it is believed that this rule is being largely ielaxed, on account of the inconvenience of marrying a boy before he has finished his education; while, if he was given a bride of six or seven years old the dispanity in age would be too great. Marathā Biāhman women of good position will wear only ornaments of gold on their head and arms; and if they cannot afford this will have none at all. In respect of food the practice of the Marathā castes is somewhat more lax than in the north. Several even of the respectable castes, such as the Kunbis, will eat fowls, and Brāhmans will eat onos. Old

is largely used as a food in place of ght in the Maratha Districts, while the higher classes of Hindustains prefer to have nothing as a sauce if they cannot afford ght A small difference of social practice is that in Hindustain betell-leaves are handed to guests ready-folded and containing the other ingredients, while among the Marathas they we given separately and the guest is expected to make them up for himself. In the Maratha Districts the floor of the house is washed every norming with a mixture of cowdung and water, and patterns are made on it with raingul, a powdered soft stone. This is not the custom in the north.

The great difference in the dress of the women in the north and south used to be that the former wore lahengas and the latter saris The sari is twisted round the hips, and then folded under them and secured at the back, while one end hangs loose and is brought over the shoulder. while the lahenga is simply a skut hanging down nearly to the ankles and drawn in by a cord at the waist. But the wearing of lahengas has now to a great extent gone out of fashion, and the women of the northern Districts have also taken to sārīs, which are much less graceful. Women in the Maratha Districts do not wear spangles on the forehead but make a patch of kunku or sed powder. They wear the angua (breast-cloth) which buttons at the back instead of the choli, which buttons in front, In the northern Districts the diameter of nose-rings may be from three to nine inches, but among the Marathas they are much smaller, not more than one inch to one-and-a-half in width dress of the Maratha castes is simple and plainer than in the north Grant 1 remarked -- 'In dress and appearance ' the contrast between the two races is striking, and on 'a gala day when a southern crowd presents a mass ' of white clothing and enormous red turbans, the more orthern people may be known by their costumes of mahua

I C. P. Gazetteer introduction, p. XV

'green, and their jaunty, compactly twisted head-dress of 'coloured cloth'. The colouring of dress in the north has suite changed, but the description of the Maithhas still holds good. Houses are less substantial here and second stories of brick are seldom seen. Lastly a custom may be recorded of Maithha town life which is interesting for its resemblance to that of the ancient Greeks. This is that men sometimes frequent the houses of prostitutes for conversation. They are given betel-vine, and at the time of departure each person is expected to put a rupee on the tray.

82. The daily life of a clerk in Government of other service is somewhat as follows. He Urban daily life. gets up between four and six in the morning according to the season of the year, and does a little exercise with dumb-bells or Sandow's developer. He then has some tea and goes out for a morning walk, and coming in before seven disposes of any work he may have or reads a book Between nine and ten he bathes and puts on a clean dhoti or loin-cloth, and if he is a man of high caste, as most educated persons are, goes through his tormal morning devotions. Formal, because he has generally ceased to consider them as having any meaning, and the spirit of agnosticism is spieading rapidly. Worship in the moining lasts about twenty minutes and in the evening about ten. But if the full ritual prescribed for a Brähman were performed, it would take altogether about three hours. He will then take his food. This he now eats wearing only the clean dhoti which he has just put on. The rule among the Marāthā Biāhmans is that a special cloth of silk or wool, pure materials, should be worn solely for the purpose of taking food, but this is now going out of fashion, except at festivals and caste feasts But food is still eaten in the chanka or cooking-place, spread with cowdung and marked in squares with lines of white powder. A separate little square is marked off for each person who is to eat, and inside this is placed a little pāt or wooden seat about 3 inches high.

on which to sit Rice, pulse, and

classes tea is drunk with milk

CHAUKA or vegetables are generally the materials of both meals, and wheat and mar are seldom eaten. Cords are always eaten. Besan or gram-flour Place fried with curds, clove and other for one spices, and ghi, is a favourite dish, person Among the cultivating classes man is the staple food and is eaten in thick chapatis or flat unleavened cakes weighing half a pound a piece and dipped in oil or ghi, with these are eaten vegetables, pickles and boiled peas. Another way of cook-ing juli is to grind it into flour and hold it with butter-milk into a substance resembling porridge, it is seasoned with pepper and vegetable oils. Among the urban

and sugar in cups and saucers of enamel or earthenware. Coffee and cocoa are less popular but are coming into use Enamelled vessels are very popular. In the more advanced community a table-cloth white or coloured, is spread on the ground and the dishes are placed on it. The people sit round it on stools and take their food from the ground. Tables and chairs are generally kept for writing. Leaf-plates or plantain leaves are still used when a number of guests are invited. After taking his food the clerk will smoke or chew betel-leaf, and then proceed to his office. The practice has lately grown up among the official class of having lunch during a short interval in office work. This is supplied by some waterman or other attendant and consists usually of gram

or boiled rice, fried in linseed oil and strained. It may be eaten either on a piece of paper of a brass plate. When he gets home from office about five or six, a man washes his hands and feet, has a little refreshment and plays tennis or goes for a walk. The higher classes of officials now have a club at Nägpur where tennis, billiards and pingpong are played. He will come back at 7-30 or 8 and have supper. After this he chews betel-leaf, smokes and reads the newspaper or plays on some musical instrument, going to hed about ten.

83. The above sketch has shown how in several respects A option of European the educated native community tend to adopt English habits, both in heir way of life and amusements. Other instances can be given. Educated people wear felt caps made in England, cloth coats, and flannel or drill trousers, discarding the loss-cloth, and shoes made after the English fashion from Cawnpore of Agra These are now also manufactured in Nagpur and Kamptee. A few natives of high rank go so far as to adopt solu-topis. Formerly most Hindus shaved then head with the exception of the choti or scalp-lock, but now many of them wear their hair simply cut short like the English. The weating of ornaments by men was a very common custom, but it is rapidly being abandoned, The educated classes at any rate have perceived the disadvantages of hoarding money. The Marwari Banias leave nothing to be desired in the direction of commercial enterprise and speculation. The raising of the age of marriage has already been referred to. In former times the status of families, in repard to the desirability or otherwise of their alliance in marriage, depended on their belonging by unblemished descent to some group of the caste which had gained a traditional reputation for sanctity of conduct or purity of blood The leading instance of this rule was of course the hypergamy of the Kulin Biahmans of Bengal. Nowadays the degree of eligibility of a

prospective bridegroom depends as much or more on his educational attainments as on his family. The bailber and the family genealogist are no longer entrusted with the arrangement of matches, and matrimonial advertisements even appear in the papers, in which the examinations passed by the boy are duly set toth. It would be fairly safe to say that the days of Kulinism are numbered if it still exists Official position and wealth tend to be the factors which determine social standing, displacing family distinctions, The position of women is improving and they are encouraged to learn various accomplishments as sewing, drawing and music, besides reading and writing. In this matter the influence of lady missionaries has counted for a good deal. The prejudice against allowing male doctors to visit female patients is disappearing, and people tend to prefer the doctor with professional qualifications to the family hakim The taste for gardening, now so universal among Europeans, is extending to educated natives

84 The effects of education, of travel and of the constant Distegard of caste observance of European life now estrictions. exercise a disintegrating tendency on the caste system, more potent than all Muhammadan prosecution. Educated men of different castes will take food with one another, sometimes even sitting together, at other times sitting in separate rows. The Brahman does not trouble to inquire the caste of the sweetment vendor at the railway station, and will drink tea or coffee in an enamelled cup, even though a Mahar, whose touch is supposed to convey pollution, may be sitting next him. Medicines are ireely taken without inquiring who mixed them. The more advanced eat biscuits and tinned food, without being put out of caste, and many young Biahmans eat meat and drink alcoholic liquor, though not openly The veneration for Biahmans which is the basis of the caste system, tends to disappear, nor do educated members of the caste set store by it or deplore its loss. Recently a Brahman who had committed the great sin of killing a cat was allowed to participate in the important caste ceremones held in the month of Shrawan without having made any expation. The isolation of advanced sections, who have cut themselves adrift from the caste system by permitting widow-marriage, is tending to disappear. They are invited to dien in the houses of orthodox Brahmans, sitting in separate rows, and these will go to their houses in return and eat food, provided that it be cooked by a Brahman who has not lost caste

85. Among the educated classes English games are anidly being adopted by those who 1 musements can afford them. Native theatrical and circus companies frequently visit Nagoui, and also professional troupes of acrobats, dancers and snakecharmers. There are two reading libraries in the town, and these are much frequerted in the evening. A well-to-do malouzar may take in four or five weekly native papers at two to four pice a conv. Picnic parties are usually given in honor of friends who have been transferred, when the whole party is photographed. The number of bicycles is legion and a few natives now have motor-cars. The tonga as used by Europeans is supplanting the old and lighter rengs or light cart among the well-to-do. A gramophone may be found in the houses of many native gentlemen and they appear to have a great liking for it Records containing native music are provided. Many also have manos on which native music is played. Both playing and singing must be learnt by heart as there are no scores Others play the harmonium, the flute, the sitär which is something like a guitai, and the table or drum. The cultivators are very fond of singing while they labour in the fields and also in the evening. When the crops are ripening picnics are held in the fields at which the new juar is paiched and eaten Coloured prints from Bombay are very popular, especially those of the more common deities. Photographs of friends are also a common form of decoration. The walls

are still adorned with the pictures of the Chitaii at marriages and at the Diwah and other festivals. The designs are drawn and then painted with hau brushes, generally in red and blue Cattle-races are held on the festival of Til-Sankiānt, at which two pairs of bullocks in a light chhakrā or cart race against each other for a distance of half a mile or so, while the owners bet on the result Wrestling competitions are held on Nagpanchami, pethaps because the movements of a wrestler resemble the convolutions of a Many villages have an Akhārā or wrestling pit, at which the boys and young men compete with each other and also practise the deshi Rasrat or exercise which they have learnt at school. Much feeling is sometimes aroused at wrestling matches between the partisans of different champions, and the meetings occasionally end in a disturbance. The villagers have rude dramatic representations of their own, especially of the conquest of Rawan, the demon king, by Rāma at the Rām Navamī testīval or Rāma's birthday on the 9th of Chart Saturical sketches are also performed, at which the peculiarities of European and native officials are caricatured Dhandlur is a sort of combined dance and dramatic performance held at the Diwali festival, somewhat resembling the beginnings of the Greek play. The young men and boys, some of whom are dressed as girls, stand in two lines, holding sticks which they beat against each other as they dance, while in the centre two actors enact some performance All classes gamble at the Diwah festival, playing at different games. The Hindu playing cards are round, there are ten suits, one for each incarnation of Vishnu, the boar, the tortoise, Rāma, Krishna and so on In each suit there are twelve cards, the ace to the ten, and two court cards, the Wazir and the King.

S6. Hindu children have the same amusement as En-Children's games glish ones so far as their means permut. Dolls are made of clay and cloth, and occasionally their marriages are celebrated with feasts and fireworks On Akti day in the month of Baisākh, girls take out two clay images of a man and a woman and worship them in the jungle. Swinging and walking on stilts are the pastimes of the month of Shrawan (August), the idea being that the crops will grow as high as the stilts or swing Kite-flying is a favourite amusement with old and young in the open and the game of palang larana which consists in trying to cut the strings of each other's kites is played. When the string of a kite is cut and it falls to the ground, it becomes the property of the first person who can pick it up. Formerly the weavers used to prepare a special coid for kiteflying, but English thread is now generally used Before flying the kite the thread is rubbed with paste mixed with glass dust to make it hard and sharp. The price of kites varies from eight for a pice to half an anna each. Both old and young are very fond of fireworks. The principal ones used in the Central Provinces are the anar, the phatako, and the mehtab. The anar is put on the ground, and when set fire to the flame, shoots up to a considerable height, while the militab is placed on the end of a stick and gives a bright glaic. The phalakas of crackers are made with potash and other ingredients in the form of a ball, and when thrown down on the ground go off with a loud report These are commonly used to celebrate the Diwali and add a pleasant excitement to driving through the bazar at that time.

87 In former times poor students commonly Irved on alms according to what was known madhukuri signifies literally a cake or bread baked on live coals, and has come to mean food given as alms to pilgrms. The students would go round the town begging cooked food during the day, and in the evening receive instruction in the sacred books at the houses of their preceptors. Nowadays the students no longer beg for cooked food, but go round in turn to the bouses of native gentlemen, who have agreed

to give them a meal A few students who supported themselves in this manner while they got their education have risen to high positions in Government service.

#### LEADING FAMILIES

Rājā Raghuji Rao and Kunwar Lakshman Rao are the representatives of the Bhonsla The Bhonsla family ruling family of Nagpur family name is derived from a village Bhosawat near the tort Bhosa in Bombay Then father Janoii Rao was adopted in 1855 by Darvabai the widow of the last Bhonsla Raia Raphuii III. Their real grandfather was a member of the Abirrao clan and married a great-grand daughter of Raghuji II, so that they belong by blood to the family on the The eldest member of the house retains the mother's side title of Raia of Deor, a village in Bombay, and is addressed as Raja Bahadur The brothers receive pensions of Rs. 50,000 and Rs. 12,000 respectively from a fund created from the personal property of Raja Raghuji III, while their mother and sisters get a pension of about Rs 30,000 They have also succeeded to the large private estate of the late Rais which yields an income of about three lakhs, a considerable part of the estate being held free of revenue During the Raja's minority the estate was managed by the Court of Wards and was released free of encumbrances in 1802. In 1900 it was partitioned between the brothers, both of whom are somewhat heavily involved The Raja and his brother po-sess some very valuable jewellery. Their marriages are arranged with the other Maratha clans of high standing, and Lukshman Rao has recently married a relative of the Garkwar of Baroda. Raghuji Rao is 35 years old and has two sons Lakshman Rao is 33 and has a daughter

89 The Gajar family are closely connected with the Bhonslas. The present iepresentiated to the Bhonsla. Rao Gajar, is the adopted son of Yashwant Rao, who

was grandson of a daughter of Mudhoji I. He inherited

t Died of an accident on 1-9-08,

the estate given to this daughter and has 48 villages, which are held free of revenue and yield an income of Rs. 35,000 a year Naoloji Rao 15 about 38 and is an Honorary Assistant Superintendent of Police and Honorary Magistrate He has one married daughter and is somewhat heavily involved Another Guar family is that of Pandurang Rao, whose father was one of the seven Councillors of Raghuji III. He has a small political pension. Venkit Rao Gujar is the adopted son of Kiishna Rao Aba Sahib, who was grandson of a sister of Raghuii III. He has a large estate of 50 villages, of which 45 are held free of revenue. He is a minor and the estate is under the management of the Court of Wards, while Venkat Rao is being educated at the Rājkumār College, Raipur. The Sirke family are also closely connected with the Bhonslas, Sirke being one of the clans with which the ruling family intermarried. They derived their name from the goddes. Shirka, who is said to have assisted them in the conquest of a portion of the Konkan The family is now in straitened circumstances and has very little property, Dan Sahib Sirke, who was its head, died in 1907. His sister Darya Bar was the wife of Raghuji III and adopted Janoji, the father of Raghuji Rao and Lakshman Rao. And another sister was married to Yashwant Rao Gujar, the adoptive father of Naologi Rao. The family also intermarried with the Rajas of Satara.

The Ahirrao family are also connections of the Bhonsla house, and Janoji, who was adopted by the widow of Raghuji III, was a member of it Ahiloji Rao Ahirrao, who died in 1906, was Jānoji's brother, and was succeeded by his son Ramchandla Rao. His estate, consisting of four revenue-iree and three other villages and yielding an income of Rs. 18,000, is now under the Court of Wa ds.

90. The Chitnavis family of the Parbin caste is of The Chitnavis family instorical note and has retained its importance down to the present time. The word Chitnavis is a corruption of a Persian

word meaning secretary, and has been adopted by the family as for five generations they served as secretaries to the Bhonsla rulers Rukhmāji Ganesh was Chief Secretary to Raghuji I. His son Chimnaji represented the Nagpur, Raja at the Peshwa's Court, and his nephew Krishna Rao was first minister to Raghujī II. Chimnāji's brother Gangādhar Rao was also a secretary, as also was his son Mādho Rao, who after the annexation served as an Honorary Magistrate and obtained the title of Rao Sāhib. He left two sons, Gangadhar Rao and Shankar Rao The Honourable Mr. Gangadhar Rao Chitnavis, C.I.E., one of Nagpur's most prominent citizens, is an Honorary Magistrate of the 1st class and has three times served on the Viceroy's Legislative Council He is Chairman of the District Council and of the Nagpur Municipal Committee Mr. Shankai Rao Chitnavis is a Statutory Civilian and a Deputy Commissioner in the Central Provinces Commission. He obtained the Kaisai-i-Hind gold medal for his services, during the famine of 1900. The family own a fine estate of 150 villages and have also an extensive banking business and shares in mills and factories.

or. Diwan Bahadur Seth Kasturchand Daga is the leading banker of Nagpur, Hisfamily Bansi Lal Abitchand. are Mahesri Banias of Marwar and his father Bansi Lal Abirchand, by whose name the firm is still known, rendered valuable services to the British Government during the Mutiny, for which he received the title of Rai Bahadur and a gold aimlet Seth Kastorchand owns 17 villages, a cotton mill and several gins and presses and has an extensive banking business with agents in a number of large towns. His firm do not as a tule lend money to agriculturists or try to acquire land, but confine themselves to exchange banking and also act as Government Treasurers in several Districts. Seth Kasturchand has given large donations to public institutions like the Dufferin Hospital, the Victoria Institute and the Bansī Lāl dispensary, and rendered

great assistance to the Bikaner State, in which his home is situated, during the famine of 1900 He has been made successively Rai Bahādur and Diwān Bahādur, while his son, Biseshwar Dās, is a Rai Bahādur

92. Rao Bahādur Ganpat Rao Ghatāte is a prominent
banker and landownei of Nāgpur,
his estate consisting of about 150
Villages. These have all been

acquired by himself and his father, Gopal Rao, who began as a very poor man. Ganpat Rao remitted large sums to his debtors during the conciliation proceedings. Shankar Rao Pandit is great-grandson by adoption of Nārāyam Rao Pandit, who came from Benāies at the lequest of the Bhonslas about a century ago and acted as their representative with the British Government. He received grants of property both from the Bhonslas and the British, including five villages in jubbulpoie free of revenue in perpetuity. Shankar Rao is a boy of about ten years of age and his estate consists of 12 villages, yielding about Rs. 15,000 a year.

The Upadhe tamily of Baāhmans have been the family priests of the Bhonsia hom the time of Rājā Raghuji I They are much tespected by the Brāhman community of Nāgpur and formerly had a considerable estate, but it has been reduced by altenations for debt and now consists of only five villages held free of revenue Ganesh Dikshit Upādhe is about 70 years of age.

The Subhedar family belonged originally to Khandesh, and their ancestor, Venkat Rao, was Subhedar or District Officer of Chhattisgarh in the time of Raghuji I, having under his jui sdiction the semi-independent samindars and Feudatory States. His sons Sakhárám and Ganpat Rao weie Subhedars of Chhattisgarh and Bhandaia respectively and the latter entered the British service after the annexation. Of his three sons Govind Rao Subhedar is an Hono-

rary Magistrate and Manager of the Bhonsla Estate, and Sadashiya Rao and Nilkanth Rao are respectively District Judge and Sub-Judge in the Provincial Judicial Service The jamily own 15 villages in Bh indara. The Būtis are a we I-known banking family, being Charak Brahmans by caste. They are descended in three lines from one Sadashiva Buti, who resided at Kuhi in Umrer tahsil. Their original name was Gharjale and the surname of Buti is said to be a c supption of butli, a small brass pot, as they formerly carried this not to collect money from their debtois. The eldest grandson of Sada-hiva Rao was Rai Bahadur Mukund Balkrishna Būti, who was of a very public-spirited charact, r. His s n and successor is Gopal Rao, who has three sons, his estate is worth about a lakh a year. Rao Bahadur Vināyak Jāge-hwar Eūti was another grandson of Sadāshive, and also gave large donations to public objects. He was succeeded by an adopted son Balaji A third branch is represented by four brothers, great-grandsons of Sidashiva, of whom three, Atmaram Amrit, Kiishna Rao and Ramchandra Rao are alive, and the first and third of these are Honorary Magistrates. All the members of the family are wealthy. The Kaptan family who derive their surn me from the English word Captain, also held high military offices under the Bhonslas.

Prin ipil families of the District.

Maghinj Bhon-la in the 18th century, in reward for the good arran\_ements which he made in his village for the supply of Raghinj's camp Hiraji maintained a regiment and was in charge of a subdivision. The family are now divided into several brainbes. One member Râm Rao is an Honorary Magistrate and member of the Univer municipality. His brother, the late Kao Bahadur Trimbak kao, re-event the Kausari-Hind gold medal, They do not own the village of Univer but have a grant of

93. The Deshmukhs of Umrer are Maratha Brahmans,

land, which was attached to the office of Deslimukh, and they have an estate of about 50 villages in Nagpur and Chanda.

The Naik family of Umrer are Lambu Brah nans, the tounder of the family having migrated from Guiarat and settled in Chimui about two centuries ago. He and his descendants lent grain on the Warpatla or Samai system and the family are known as Warkari in commercial circles. His grandson got the title of Naik as being the most prominent man in the village, and the family have adopted if as a surname. He was made a collector of revenue for a small area under the Marathas, and had the right to receive a runee of a cocount for every mairiage or widow-maruage which was celebrated within his jurisdiction. The family now consists of three branches represented by Narayan Shridhar Naik and Janardan Damodar Naik of Umre; and Rajeshwar Naik of Chimus They have some landed property and a moneylending business Ganpat Rao Deshmukh of Mohoā has an estate of ten villages. which has been held by his family for the last hundred years The villages of Paidi and Khaiii were bestowed by the Gond Raias on Babaii Deshmukh before the coming of the Marathas on a quit-rent of Rs 500, and they are still held on the same. These villages were included in the Mohpā jāgir, which was granted by Raghuji III to Nawāh Hasan Ali Khan and the Deshmukhs held under him. Hasan Ali Khān became indebted to the extent of a lakh and-a-quarter and the British Government paid off the debt and resumed the moir.

The Deshmukh of Kalmeshwar is a Rajput by caste, and his ancestors held a considerable estate under the Gond Rajā Bakht Buland, for whom he maintained a force of horse and foot. This however was resumed at the annexation and the present representative only owns the village of Kalmeshwar. One of the leading men of the Katol tahisli is the proprietor of Yerla, Kautārām

Patel, a Kunbi He owns 27 villages, of which nearly all have been acquired by his father or himself. One of his ancestors was a Sardiar at the Mughal Court at Delhi and obtained a drum and a flag from one of the Emperors which are still in the possession of the family and are cattled in mocession on fostival days.

or. Among the gentlemen who, though not landowners of the District, are connected Prominent citizens of with it as being leading citizens of Magnue Namer the most prominent is Sir Binin Krishna Rose, C.I.E. He belongs to the Sahha. Bazar Rai family and received his education in the Presidency College, Calcutta. His brother was the first Statutory Civilian in Bengal and cose to be a Collector. He came to the Central Provinces in 1872 and to Nagmur in 1874. When the Nagpur municipality was reconstituted in 1882, he was appointed its first Honorary Secretary, and har area cince been connected with it He has been Sacretury of the Neill City High School since 1876, and when he took part in founding the Mours College in 1882, he became Secretary to the governing body and has since held the nost. He was a member of the Famine Commission of 1808 and has been three times nominated to the Viceroy's Legislative Council, and has received successively the distinctions of Rai Bahadur, C. I E, and a Knighthood.

When in the eighteenth century the Nimbalkar family received the tract round Bhusawal in the Khandesh District with a commission for collecting chauth¹ and sirdsechninkh² on behalf of the Peshwal, their chief Mankaris or councilors were the Pandits. This family resided in Nimar for a century and-a-half and after the annexation were Kamaishdars or revenue-collectors under the Political Agent. Raoji Rajaram Pandit rendered valuable services during the

I Chauth was the fourth of the revenue which the Marathas claimed in all tracis where their armies penetrated, and siraeshmukhs an extra due for the trouble of collection.

Mutiny The present head of the family is Rao Bahādur Ramkrishna Rao Pandit, who has been a distinguished member of the Provincial Civil Service, acting as Diwan of Nandgaon and Superintendent of Bastar His eldest son. Vasudeo Rao Pandit is a bourister and has received the title of Rec Rahadur and a Kaisara-Hand medal. His vounger son is also a barrister. Rao Bahādur Rājārām Siturum Dukshit belongs to one of the Nager Brahman tanulies who migrated from Guarat to Nimar. His father was a prominent merchant in Nimar and undertook journeys to Rombay for commercial nurnoses before the railway was built. On one of his journeys during the Mutury he fell in with Tantia Topi's aimy and was mulcted of his merchandise. Raiaram Sitaram Dikshit managed three famine camps in Nagrous in 1000 with great success, and has made liberal donations to other nublic objects. He is an Honorary Magistrate and a member of the municipality. The landar family were ' Keepers of the Wardrobe' to the Bhonslas, as their name signifies. Their present representative. Vado Rão Jamdar, is a Munsiff and holds the village of Palsat in Umrei tahsil as a revenuefree grant. The Kälikar family were ' Keepers of the Privy Purse,' and sites the annexation were employed as Superintendents of the Treasury by the British Government Vithal Rao Kalikai is a Munsiff and has a grant of land.

## CHAPTER IV

#### AGRICULTURE

# 80118

95 The District hes towards the eastern boundary of the

Deccan trap area and hence the Composition of soil,1 soils of the District are either true black cotton soil or else formed from a basis of cotton soil modified by intermixture with soils derived from the gneissic formation which surrounds it. This black cotton soil or regar determines to a large extent the nature of the agriculture of the District There is no general agreement as to how this wide expanse of resar has been formed character is that of an alluvial backwater or lake deposit. but it is difficult to see how such a formation can have occurred on the Deccan plateau. In many places there is no doubt that the soil is derived by the disintegration of basaltic trap rock and in others by the decomposition of other argillaceous rocks That the process of regar formation is a superficial one can be well seen in the undulating country of the Nagour District. On the tops of the flat hills where the surface suffers less from erosion than the sides, the soil is dark brown in colour. That upon the sides of these hills being more recently formed is reddish brown, while in the valleys below, where the rain-wash gradually accumulates, the soil becomes of a true black cotton-soil colour. It is largely as a result of this erosion and subsequent accumulation that the agricultural value of the land of this District varies so enormously

The origin of the black colour is also a question of doubt it is generally ascribed to the presence of organic matter, but this material is scarcely present in sufficient quantity to account for the blackness altogether and it is quite possible

<sup>&</sup>lt;sup>1</sup> This para, has been written by Mr Plymen, Agricultural Chemist

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that some of the colour at any rate is due to mineral matter Chemically, black cotton soil shows no very striking differences from other Indian soils. The proportions of iron, alumina, lime and magnesium are fairly high, particularly the latter, while of the more essential plant foods, potash appears to be present relatively in more abundant quantity than phosphorous and nitrog-n If compared with English soils the amounts of phosphates and nitrogen do certainly appear to be small and this fact has doubtless given currency to the idea that the black cotton soil is becoming impoverished With the exception, however, of certain alluvial deposits in Assam this soil compares favourably with the generality of Indian soil in this respect, Physically regar is essentially a clay soil and as such is very sticky when wet, retentive of moisture and easily loses its tilth if cultivated at the wrong time. The presence of lime, however, to a certain extent counteracts these qualities and renders the soil friable when dry besides giving it its most characteristic property,-that of shrinking and cracking, This property is due to flocculation of the clay particles in the presence of a dilute solution of some lime compound, but the contraction thereby caused only become apparent when the soil dries. The best regar land contains very few large particles, but inferior qualities frequently contain nodular limestone or kankar This deposition of a calcareous pan is of general occurrence in soils of and regions. In the east of the District the underlying tock is crystalline and yields a soil more sandy and pervious than regar and one therefore more adaptable to irrigation. Where the two geological formations intermix a free working loain is obtained, but this is not found over any large area.

96. The best deep black soil, known as kāli, occurs only

Classes of soil.

In small aleas, covering altogether
less than two per cent, of the cultivated area. It is found round Kalmeshwar and Saoner,
in the Wardha walley and in the Nāgpur and Kamptee plain.

The principal soil of the District is that known as morand. under the two classes of which come two-thirds of the cultivated area. It is of comparatively slight death, dark to light brown in colour, of light texture and easily culturable, and containing a greater or less quantity of limestone pebbles (kankur). This soil is eminently suited to cotton and juari and makes excellent rice land when embanked. requiring but little irrigation if the rainfall is normal, and producing a second crop. In the northern part of the Ramtek tahsil, and especially in the valley of the Sur river. the morand soil is of very light colour Khardi is the term used for shallow soil not more than a cubit deep, but various qualities of land were classified under this designation as being of equivalent value. It is applied to soil much mixed with sand and hence of a grevish colour, and also to the sandy soil formed from crystalline rock, which constitutes the regular rice land and is elsewhere known as sthar and matass. About 27 per cent of the cultivated area was classed as khardi. The only remaining soil of any extent is the red gravel covered with boulders, found on the summits and slopes of the trap hills This is known as bardi and covers 54 per cent of the cultivated area, occurring principally in the Katol tabsil land under crops thus contained at Mr. Craddock's settlement a very small quantity of the really poor soil which requires resting fallows Small stretches of return or sandy soil overlying sandstone rock occur in the north of the Ramtek tahsil. About 1200 acres were classed as kachhar or alluvial land fertilised by the deposit of silt, the largest patch of which is in the bed of the Kanhan at Neri,

97. The usual allowances were made for advantages and disadvantages of position wheat land.

Differences of position Fields recorded as pathar, lully, or wahars cut up by erosion, amounted

to about 14 per cent. of the better-class land or that classified as, capable of growing wheat. Nearly two-thirds of the

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cultivated area of 1,300,000 acres fell into this category, the bulk of the remainder being of somewhat inferior quality and known as minor crop land. Distinctions of position were not applied to this latter area, otherwise no doubt many fields in the Katol tahsil, where the surface is noticeably undulating, would have been classed as wahuri As it was most of the land subject to injury from erosion lay in the Umiei tahsil Land classed as ran, or subject to the depredations of wild animals, is common in the villages near the hills in both Nagpur and Umrer The embankment of land is regularly practised only in certain level areas along the Bhandara border in order to enable a broadcasted rice crop to be grown with a spring crop to follow Elsewhere embankments are made only at field corners or along one side of a field to protect it from erosion Out of 820,000 acres of land recorded as capable of growing wheat, 640,000 or nearly four-fifths were classified under the ordinary or sadharan position. Mr. Craddock was of opinion that in future it would be desirable to have a separate class for level or saman fields distinguishing them from ordinary fields, which are not quite level but yet of not so irregular a surface as to be recorded as hilly or cut up by erosion.

- 98 About 29,000 acres only were recorded as ince land,
  Rice land, and of this a half was classed as
  capable of irrigation, though in
  ordinary years so large an area is not actually irrigated.
  The bulk of the iemander is shown as zamān or level,
  high-lying land not being as a rule cropped with nice
  Although the rice land is of tifling extent, some villages
  in the west and in the Dongartal tract are entirely dependent on this crop
- 99 Minor crop land covered 460,000 acres or lather
  Other kinds of land area. Although this designation
  is meant to indicate infeitor quality either from disadvant-

are of position or shallowness of soil, it includes much valuable cotton and juan land in the Katol tabsil and elsewhere About 17,000 acres were classed as graden land. A total of 15,000 acres distributed among the different classes was recorded as khārī or land manured by the drainage of the village.

STATISTICS OF CULTIVATION

100. Of the total area of the District in 1905-06, 532

Occupied and cropped square miles of 14 per cent consisted of Government forest, 343

square miles or q per cent, were

classed as not available for cultivation and 419 square miles or 11 per cent were shown as culturable waste other than fallow. The remaining area, amounting to 2554 square miles, or 1,630,000 acres, and constituting 66 per cent. of the total or 77 per cent of the village area excluding Government forest, was occupied for cultivation at the 30 years' settlement the occupied area was 1,100,000 acres or 67 per cent. of the village area at that time. In the intervening period up to Mr Craddock's settlement, about 42 square miles of Government wastes were made available for cultivation. At that settlement (1891-93), the occupied area was 1.570,000 acres, showing an increase of 170,000 acres or 12 per cent during the thirty years. During the ensuing 14 years up to 1905-06, the increase has been 65,000 acres or 4 per cent. on the settlement figure. At M1. Craddock's settlement the unoccupied area, excluding Government forest, was 845 square miles and he estimated that 340 square miles of this were actually culturable. About 100 square miles have since been taken up, at the rate of about 4500 acres a year, or very nearly the same as the average annual increase during the 30 years' settlement. It may be estimated that

The area taken in this paragraph is that obtained from the village papers. It is smaller than the professional survey area by 9 square niles.

the future progress will be slower. At settlement the proportion of occupied to total area in each tabsil was— Nagpur 79, Umrer 70; Ramiek 74, Katol 75. The corresponding figures for 1905-06 were —Nagpur 81; Umrer 72, Ramiek 78; Katol 78

Of the occupied area in 1905-06, a total of 220,000 TOT acres or 14 per cent, were under Fallows new and old fallow, the new fallow being 40.000 acres and the old 180.000. At seitlement 310,000 acres or 20 per cent, of the occupied area were fallow, and the cropping is now therefore considerably more close The proportion of cropped to occupied area in each tabsil at settlement, the balance being fallow, was Nagpur 79; Umrei 71; Ramtek 83, Katol 88 Mr. Craddock remarked on this subject . The Kaiol tabil is the best 'cultivated, in spite of the larger proportion of stony land ' which it contains : Ramtele comes next and Umier is la-t Some allowance must be made in Umier for the fact that the surface is undulating and dries rapidly, but the tabsil is as a whole much under-cultivated The cultivators there ' are the least industrious; holding, are large and rents low; 'while the number of uninhabited villages, known as riths, is disproportionately high. Though its best soils are 'inferior to the best soils of Katol, it has a much smaller ' proportion of poor land, and resting fallows are seldom a real necessity. There is thus great scope for increase of ' cropping in Umrer, as well as over part of Nagpur tabsil ' where similar conditions prevail '

Closer and more careful cropping much the expected in the Naggur tahali than in localities, further removed from the city But the contrary is the case A large number of holdings in villages round the capital belong to Brahman' of Nagpur, and other absentee cultivators, whose farms are not properly supervised, and among the regular agridultual classes holding land in the neighbourhood man's

<sup>&</sup>lt;sup>1</sup> Settlement Report, para 67.

pay more attention to bringing fuel and grass into the town for sale, or to plying carts for hire, than to the cultivation of their lands. Cow-dung manure is made up into fuel cakes instead of being attlised in the fields, and bullocks are used for drawing carts when they should be at the plough. As one gets further from Nägpur these causes cease to operate, and some of the outlying parts of the tahsil are much better cultivated. Mr. Craddock calculated that if the cropping within the occupied area was as close over the rest of the District as in the Katol tahsil, another 128,000 acres would be added to the cropped area. As has already been seen the fallow land has since decreased by 90,000 acres or rather more than half of this amount.

The total cropped area in 1905-06 was nearly 1,420,000 acres or the maximum recorded At settlement the cropped area was 1,360,000 acres and the increase has been 153,000 acres or 12 per cent. in 14 years As has been 153,000 acres or 12 per cent. in 14 years As has been 150,000 acres or 12 per cent. in 14 years As has been 150,000 acres and the occupied area and contraction of fallows. At the 30 years settlement the cropped area was 1,150,000 acres and the increase up to last settlement was 114,000 acres or 10 per cent. as against 153,000 acres in the 14 years since settlement Nagpur has the eighth largest cropped area in the combined Provinces, being exceeded by the three Chhattisgarh Districts and all the Berár Districts.

103 In 1905-06, double crops were grown on 6000 acres and the net cropped area was 1,411,000 acres. After-crops are grown principally in the rice tracts, the pulses urad and lakhors being sown in the damp fields. Late rain is necessary for second crops; the maximum area cropped twice was 17,000 acres in 1897-98 when the late rains were heavy and the minimum 2000 acres in the famine year of 1800-1900.

At settlement the spring and autumn harvests were of nearly equal importance, the form correction of the street of nearly equal importance, the first per cent of the cropped area. Since the settlement the greatly increased production of cotton has largely altered the proportion of the harvests and in 1905-06 autumn crops occupied nearly 1,050,000 acies, or 73 per cent of the cropped area, and spring crops only 370,000 acres, or 27 per cent.

 $M_1$  Craddock describes the agricultural character of the different parts of the District as follows —

'The north Bhiugaih and Dongartal tracts (where the 'large blocks of Government forest included in the east ' and west Pench ranges are situated) bear considerable 'resemblance to the Satpura country which they border 'The soil met with in them is mostly light, the villages ' small and poor, and the cultivators belong to the aboriginal 'tribes, consisting principally of Gonds and Gowaris. On ' the other hand, in the whole of the country diamed by the · Wardhā river and its tributaries, we find land of exceptional ' fertility, producing both rabi and kharif crops, interspersed ' with many gaiden villages Even in the more rugged ' portions of the Katol tahsil the flat-topped stone-covered 'trap hills which abound, in seasons of adequate rainfall. will grow excellent crops of juar and cotton. The 'Wainganga plain is essentially the wheat tract of the ' District, and wheat, linseed and pulses are the principal 'crops produced The rainfall is too heavy for cotton, ' and juar is not very successful, except on well-drained ' areas met with along river banks. The edges of the ' plain begin to resemble the tracts which border it. On the east along the Bhandara border, rice is of some ' importance, and tanks and ponds abound. On the west, ' where the Wunna valley is approached, autumn crops ' are more important. The agricultural character of the ' country lying between the two main divisions of the District has also distinctions of its own. But it may be generally said of it, that in the north (the country round Kalmeshwai and Saoner) it resembles the rich pottions of the Waidha valley, in the south (the Wunnā valley) it is more like the pooler portions of the Katol tahsil. The remaining division of the country, or the Nand valley, which consists of the Sirsi and a portion of the Belä groups, is a wheat-growing tract. The proportion of juär, cotton and other kharif crops produced is remarkably small. This tract is still much under-cultivated, the tenantry are lazy and resourceless. They pay unduly low rents, and allow half their holdings to be 'fallow.'

105. In 1905-06, cotton cowered 476,000 acres or 34 per cent. of the cropped area, jud 423,000 acres or 30 per cent., wheat 211,000 acres or 15 per cent, linseed 67,000 acres or 5 per cent, arhur 115,000 acres or 6 per cent, and tiura between 20,000 and 30,000 acres each. At settlement wheat and jud were of equivalent importance covering each 25 per cent. of the cr.pped area, while cotton and linseed occupied 12 per cent. each. The District thus had four staple crops, while it may now almost be said to depend on two.

## CROPS.

106. Cotton (Gassyptum) is the most important crop Cotton. Variotes. In the District and at pre-ent the source of its e-special prosperity. The area under it has increased from 70,000 arers in 1865 to 149,000 at the settlement of 1892-94 and to 476,000 in 1905-06. In recent years the increase in this crop has been extraordinary as shown by the following figures:—1897-98, 125,000; 1899-1900, 1950-00, 1900-01, 389,000; 1903-03, 303,000; 1903-04, 365,000; 1904-05, 404,000 acres. The principal variety is that known as yar; a mixture of our Vancues G. neglectum varsuren, malocheus; reseau



and culchica. Its lint is strong but short and coaise. it gives a larger outturn than the other varieties and the plants are also more vizorous and hardy. The comparatively long-stapled variety known as bank (Government) indicum) is little grown. In Katol a third variety is known, designated as ghools or mlayats sare by the people It grows mixed with vari and is the Unland Georgian (Gossypium hirsutum) of which seed was distributed by Mr. Fuller in 1887 The leaves are large and entire, not divided into segments, and it is said to have a white and pink flower The people do not grow it willingly as they say that the outturn of lint is small compared to jari Hinganghat bani will produce counts of varn of 40's and suri of 10's and 12's, though the cotton is frequently used for spinning lower counts than those of which it is capable Bani has a staple of this of an inch and jar? of to this.

107 The land is prepaied for cotton with the bakhar or paring-plough, which is taken Methods of cultivation over it two or three times before the breaking of the rains. The seed is sown through a hollow bamboo tube called sarta which is trailed in the wake of the bakhar and held up by a woman who drops the seed through it. The seeds are previously washed in cowdung and water to prevent them adhering together by the threads of lint. The proper season for sowing cotton is from the first to the third week in June in Mriga Nakshatra Some cultivators sow before the breaking of the rains. Cotton is often mixed with the or arhai in the proportion of one line of the latter after nine. eleven, or fifteen lines of cotton, the smallest proportion of tur being sown in the best soil Double lines of tur are now usually confined to inferior soils, where the plants will not grow so high, and will therefore be less liable to stunt the cotton. A few plants of the ambara fibre (Habascus cannabinus) or of castor are sometimes mixed with the tur It is not considered locally that this practice is of any

advantage to the cotton, but was rather adopted in order to give the bushy tur plants room to spread. In fact as already stated the cotion plants growing next to the tur are stunted but it is known that arhar like other plants of the order Leguminosa contributes to the fertility of the soil by the power which its roots have of attracting nitrogen Further the ground is said to be opened up by its deep penetrating roots and to derive some advantage from the decayed foliage. It is also the favourite food pulse of the Nagpur country. In the best soil cotton is now sown alone to an increasing extent. Unmixed cotton is called mari parhati. The crop is weeded several times by passing the daurd or dhindia, the small scarifiers, backwards and forwards between the lines, this operation being sometimes carried out as many as ten times The growth of the plants is iendered more vigorous by the disturbance of their roots The space between the plants is weeded by hand. The plants flower in September and the harvest lasts from the beginning of November to the end of February Each field has four or five pickings. varying with the rainfall, of which the second and third usually give the most lint. The first picking is called Sitadevi because when the cultivator goes to the field, he makes a small mound of earth, places a little cotton on the top and offers curds and milk to the goddess. The lint can be picked clean in the early morning owing to the effects of dew on the foliage. Later in the day the mature stipules and leaves get div and crisp owing to the heat of the sun and stick to the lint The picking is usually done by women and children who work more deftly than men. Each plant has about 20 branches and each branch about 3 bolls on an average Cotton is an exhausting crop, and if sown in two successive years the land must be turned up with the nagur or regular plough and manured The crop is generally benefited by manure and the cultivators give it as much as possible Fifteen loads per acre may be considered

a full average application. It is sown alternately with judic, and also after wheat with judir in the third year. It does not do well after linseed. The crop thives in comparatively shallow black soil with a light rainfall. With prolonged wet weather the plants ripidly turn yellow and the yield suffers both in quantity and quality. Heavy rain in November when the bolls are bursting is the most distributed in the cotton that has formed is discoloured analysoil and many immature bolls are battered to the ground and destroyed. A proverb says 'If rain falls in Chita or Swatz Nakshartas (gith October—6th November) the ewon't be enough cotton for Lamp wicks'. This saying must be taken, however, to refer only to heavy or excessive tain which fortunately is rare.

The following description of pests is taken from Mr. H. B. Maxwell-Lefrov's Cotton pests. 'Indian Insect Pests' (Calcutta, 1906), to which reference may be made for a full description of cotton pests and of the beneficial insects which piev on them The cotton aphis is a small insect coloured in dull vellow or black. The insect appears in the rains and, if cotton plants are available, often remains on them till the end of the cold weather feeding on the leaves. The growth of the plants is stunted. In cloudy weather the winged insects fly far over the field and found new colonies. Hence it is that after cloudy weather the aphis becomes abundant and suddenly appears over large areas They excrete a sugary liquid, which, falling on the leaves below, dries to a sticky coating. This appearance is familiar to the cultivators and is known as movoila, though they often do not realise at all that the plants are attacked by an insect, and consider it to be a disease produced by cloudy weather. The insect is preved on by various enemies. as the Ladybird beetle and others. The only sound artificial remedy is spraying the plants. Another pest, Sphenopteru gossypu or the cotton stem borer, attacks the plants The mago lays eggs on the bark of the stem which hatch into a small white grub. This grub tunnels into the interior of the stem and feeds on the inner protoplasmic substance of the plant, going on boring until it turns into the pupa, when the plant is killed. The imago is a beetle of a copper metallic colour Plants which turn vellow and wither in August or September usually contain this giub and they should be pulled up and burned. The commonest pests, however, are the pink and spotted boll-worms which are described by Mr. Maxwell-Lefrov as follows -- In August we find the spotted boll-worms eating the top shoots of the cotton or feeding in the flower buds. They are short and thick, not more than two-thirds of an inch long when full grown colour is very variable, a mixture of white, green and black with orange spots. The predominant colour may be a dull greenish white, with black marks, or black with an irregular band of greenish white from head to tail The pink bollworm is of a white colour with bright pink spots, more slender than the other. The moth that comes from these caterpillars lays eggs on the first bolls and the attack begins, As the bolls develop more moths hatch out and both bollworms become plentiful in the cotton. This goes on till the cotton upens when probably the caterpillars hibernate The spotted boll-worms hide away in the ground and there become pupæ, while the pink boll-worms curl up in the seed of the cotton and make a cocoon there. In the next March the spotted boll-worm comes out, lays its eggs on the bringal or some other plant of the order Malvaceæ or in the old cotton plants standing in the fields and goes on breeding. When the rains break the pink boll-worm moth comes out from its cocoon. The bolls first affected should be pulled off and burnt. Seed should not be taken from infected plants. Another pest is the red cotton-bug. This is a small insect of a vivid red colour, which runs about the plant and clusters on leaves or bolls, sucking out the juice and rendering the seed useless and sometimes also the lint stained or bad.

Where either cotton or bringal are plentiful, the insect becomes very abundant, increasing rapidly in warm weather. This does not do so much damage as the other pests and is trequently not recognised by the cultivator. It can be shaken off the plants into a basket and then drowned in a little kerosine oil and water. The cotton leaf-roller is a slender caterpillar of a pale greenish colour with a darkcoloured head, which lives upon the lower side of the cotton and brinial plants, folding the leaf over and eating it As it grows larger, it binds more and more folds together, forming a kind of nest of rolled leaf in which it feeds. The best remedy is to pick off the affected leaves as soon as they are seen, and if done early this is entirely effective. The dusky cotton-bug is another insect which sucks the green bolls and injures the lint and seed. It is found especially in bolls which open piematurely after they have been injured by the boll-worm. Large numbers of small brown insects run out of such boils when they are handled and either fall to the ground, or, if they are tull grown, fly away. These insects are also best shaken off the bolls into a tin containing kerosine oil and water The least noticeable pest is the cotton leaf hopper, a tiny green fly, which lives on the cotton leaves and flies or leaps out when the plant is shaken. It usually attacks only weakly plants, sucking the sap of the leaves, which cuil up, wither and fall off.

109. The seed sown to an acre, Mr Craddook states, Seed and outtuen. Ibs.), but if the larger amount is sown, the plants will require thinning. The outturn varies conormously with the nature of the season, and owing to the distribution of yield over three or more pickings, it is difficult to make reliable crop experients. The standard taken at settlement was 240 bs of seed cotton, yielding 72 lbs. of lint and 168 lbs of seed in 1995 the Commissioner of Settlements raised the estimate of the outturn to 500 lbs of seed cotton and 60 lbs. of lint.

The value of the cotton according to the purces of 1906 would be Rs 22-8, and that of the seed Rs 5-8 per acre Even the estimate now fixed is probably a moderate one, in view of the statistics of exports of raw cotion. It may reasonably be supposed too that the increased care exercised in its cultivation during the last few years on account of the high returns and the more liberal application of manure have had some effect in improving the outturn

Inar-Varieties and methods of cultivation.

110 The large millet juar (Sorghum vulgare) is the second crop in importance and the principal food-grain of the District It was extensively grown at the

30 years' settlement, occupying 473,000 acres, from which figure a decline to 317,000 acres was recorded t the settlement of 1891-94, the crop having apparently seen found less profitable than wheat and linseed. The bad spring harvests of the next decade increased the popularity of juar, however, and in 1902-03, 493,000 acres or more than a third of the cropped area were devoted to it. In 1905-06, in consequence of the enormous expansion the cotton crop, the acreage of juar fell to 423,000. The principal local varieties of juar are ganera, generally grown on good soils, dukria or banor, white juar sown on poor soils, and red juar or lalpakri, a variety which is not extensively grown, but which has the ment of not finding favour with birds. Another variety occasionally found is moti-tūra or moti-chura. This has spreading heads upon which birds cannot obtain a footing. Its grain is used solely in the manufacture of sweetmeats. Dukria gives a poorer crop than ganeri, but will yield something in a dry year, Another variety called wans is sold only as a delicacy. There are a number of distinct varieties and the determination of the best ones for grain and fodder is important. For the cultivation of juar the field is prepared with the bakhar or paring plough in the same manner as for cotton The land is bakhared two or three times in the hot weather, the cotton stalks of the

preceding year being removed. Two more dressings with the lakhar are given in June and by the end of that month the seed-bed is ready. Sowing begins in the first week of July and lasts during that month The seed is sown with the tifun or three-coultered sowing drill, each prong having a hollow hamboo tube behind it It is sometimes also sown with the halbar like cotton. After the seed is sown a brushharrow consisting of a bundle of branches of the babiil or tamarind tree weighed down with stones is dragged over the field and covers the seed with earth. This process of levelling is called bhasoti. Sometimes the bakhar is taken over the field after sowing and this improves germination. When grown principally to: fodder as is the case round Nagpui, the seed is put in plentifully, so as to increase the number of stalks, but in good soil and in the west of the District it is sown sparsely for the yield of grain, and the plants are further thinned to increase their vigour and the size of the cobs produced. The crop is weeded with the daura or small scarifier, in the same manner as cotton, when the plants are 6 inches high, and again with the dhundia, a slightly larger implement of the same nature, about a fortnight afterwards, and this operation is repeated every fortnight if the jains peimit until the crop stands about 4 feet high A firin seed-bed is important for juar, because if the clop is sown on loose soil, there is considerable risk of 'lodging' by rain or wind As a rule on well-prepared ground juar only requires one handweeding. A thriving crop soon shades the ground and weeds are more or less suppressed. Still the seedlings are so small and delicate when they first spring up that weeds, if unchecked, soon make greater progress than the crop with disastrous results The process of rakhwalt or watching the crop is most laborious in the case of juar. It is watched by night for three months to keep off pigs and by day also for two months after it comes into ear to scare away birds When the crop is ripe for cutting, the stalks are lopped off a foot from the ground and tied up in bundles, being allowed to dry for four or five days. Women then cut off the heads, which are threshed in the ordinary manner with bullocks, or sometimes only the heads are cut off and the stalks left standing, so that they remain fresh and can be cut gradually as required. Each stalk usually bears only a single head, and if more than one is produced, they are of small size. Each head contains about 2 oz of grain or a little more. The harvest lasts for about a month, from the middle of December to the middle of January, and threshing goes on till the middle on of February.

111 A distinct species of juar, Mr Craddock states, is the ringni or hot weather variety, Ringni mār which is sown after the rains and ripens at the end of March It is sown thinly, about 5 or 6 lbs to the acre, and produces extremely fine cobs. The grain is said to be rather bitter, but during the bad wheat seasons, this juar was increasingly grown as a mixture with or a substitute for it Some cold weather showers are necessary for the welfare of the crop, but it is marvellous with what a small amount of moisture it makes shift. It is generally grown in the Umrer and Ramtek tahsils, where the rainfall is heavier than further west. Two varieties are distinguished in Rāmtek, and known as sāru and ringnī. Sāru 15 sown in October and ripens in March, while ringni may be sown in November and harvested between March and May. The area sown with cold weather juar is between 20,000 and 30,000 acres or about 6 per cent. of the total crop.

Growth and pests.

Growth and pests.

Growth and pests.

the village may be so high a to conceal a man on horseback, while a patch on an outlying stony ridge will hardly afford cover to a packal. 'On good soil,' Mr. Craddock writes, 'when the crop is well drained, the cultivator can count on 'steady yields, if he takes due care with the ploughing and 'weeding of his land A very large portion of the uar

orown in Nagput however, is produced on sloping lands of in moist wheat fields, and so a dry season in the former, or 'excessive rain in the case of the latter, will have disastrous results on the grain yield of the crop. Weeding is neglected by idle of impoverished cultivators, and thus it is that the casual observer who has seen the crop in Berar will be struck by the poverty of its appearance in the countiv ' round Nagpur.' Juar is a favourite food and the parched grain is very good eating. Farm-servants and their children are allowed by custom to go to the field and pluck enough to eat while the crop is standing, while the harvesters always receive some heads for their midday meal The labout involved in the cultivation of juli is very great, and the crop is frequently given out on contract to labourers on the condition that they do all the work of cultivation and take half the produce less the seed-grain. On the other hand the crop is popular because there is practically no initial expenditure on seed-grain, the outturn is nearly as large as that of wheat and it does well in a dry year. Juar is liable to smut when it is in flower and also to attacks from catespillars and a green fly and to damage from a weed called agia (Striga lutea) in a very dry season. Its fibrous roots entwine round the roots of the plant and check its growth The most common pest is the sugarcane borer (Chilo simplex), the larvæ of which eat the young leaves and bore into the stem, killing the plant. It is found in the cateipillar form, a slender caterpillar, not more than one inch in length of a dirty white colour, with dark spots and a black head. Smut is locally called kanhz, The ear turns black and when shaken a black powder drops out. This disease can be prevented by steeping the seed in sulphate of copper and some cultivators have adopted this remedy. A small white caterpillar which attacks the plant after it comes into ear is called lendra. Excessive rain occurring soon after the seed is sown prevents it from germina,ing and rots the plants. Juar is usually grown mixed with one

of the pulses, athar or ming, in the proportion of one-seventh of the latter From 8 to 12 lbs of seed are sown to the acre and the standard outturn is 700 lbs as in Wardha, this being the highest outturn in the Province. In a favourable season. Mr. Craddock states, a yield of 1000 to 1200 lbs. 15 considered a full outturn on land of good average quality. The value of the crop on one acre in 1905 was Rs 15 The stalks, which are known as karbi, and the chaff (kutār) torm a very valuable bye-product, supplying the fodder on which cattle depend for the greater part of the year. The value of the stalks may be another Rs. 10 or more, and the two in combination are worth not less than the standard wheat crop on the same area. The yield of stalks is not definitely known. Mr. Ciaddock takes it as 450 pūlas or bundles per acre and gives their value as Rs. 9 The people say, however, that there are two different sizes of bundle, according as it is made up and carried by a man or a woman. And of the larger kind they state that not more than 300 are obtained from an acre. The price has been known to go up in the hot weather to Rs 80 a thousand, which would make the fodder much more valuable than the giain, presumably however, this rate is for the larger bundles.

113. Wheat (Triticum satisum) is the third crop in importance At the 30 years' settlement it covered nearly 374,000 acres, and at last settlement (1892-94) 320,000 acres or 25 per cent. of the cropped area. The harvests of the succeeding years have, however, been very poor and the area sowing gradually decreased until in 1890-1900 it amounted only to 154,000 acres. Subsequent years have witnessed a considerable recovery, and in 1905-06 about 211,000 acres or 15 per cent of the cropped area were sown with wheat

The following varieties are grown in the Nagpur District:— Haura, katha, bansi and pissi. Mr. Evans states 'The first 'two varieties are by far the commonest, pissi and bansi

being only occasionally grown. The first three varieties belong to the Hard or Macaroni wheats (Triticum sativum ' durum) while bissi is of the same class as the common English wheats, mg., (T sat vulgari) Hauri is the com-'monest variety grown in the District and is a lax bearded wheat with shining white chaff and a large haid vellow grain. This wheat is said to do well only on the south ' side of the Satoura range and experiments seem to indicate that this is niobably the case, for when grown in the ' Nerbudda valley it does not seem to thrive. Whether this 'is due to the colder climate of the heavier nature of the ' soil, however, has yet to be ascertained. It bears a close ' resemblance in outward appearance to one of the several ' types which occur in ralalia, the common hard yellow wheat of the Nerbudda Division, but it possesses several char-' acteristics which, I think, show that it is really a distinct Large quantities of this wheat are annually exported to Italy and Mediterranean ports under the trade ' name " Nagpur yellow." The grain is very glutenous and 'possesses other qualifications which render it peculiarly ' suitable for the manufacture of macaroni, semolina and 'similar products. Samples of this wheat are valued for 'export purposes according to the percentage of hard vellow ' grain they contain, other points such as the amount of dirt ' and the condition of the grain being taken into considera-'tion. An average sample of "Nagpur yellow" will contain only about 48 per cent, of hard vellow grain as it is much ' mixed as a rule with soft and mottled vellow or hard red 'grains.

'Kātha is the other variety commonly grown in this 'District and possesses a hard red grain. Two types occur, one possessing dark brownish red shining chaff and the 'othei, which is commonest on the Chānda border, a white 'chaff. It differs from the common types of katha grown in 'the northern Districts, having narrower and looser heads 'and smaller harder grain of a brighter colou. This wheat

' does not fetch such a good pince as haura and is mostly 'grown for local consumption.

Passi resembles the ordinary Deshi presi of the Ner-budda valley, being white chaffed and bearded, but the heads are shorter and thinner and the grain smaller and considerably haidei. In consequence as passi wheats unlike haurā are valued mainly according to the softness or starchness of the grain, this variety is not profitable to grow on the Nāggur plain where conditions are appaiently not favourable for its best development.

\* Bansī, the variety grownin Nagpur, is apparently the \* same as the common hard yellow wheat of Beiär which is \* variously known as baxt or bakshī. This wheat is much \* more resistent to the attacks of black rust (Puccinia grammis) than the other three, but it is stated to compare \* unfavourably with hamnī, both in yield and quality. It is a \* white rough chaffed wheat with black awns; its eai are \* short and narrow and the grain a hard clear yellow.\*

Wheat is principally grown in the Umrer tahsil, and also in the south of Ramtek and in Nagpui. A little ringni juar is often mixed with the crop, in the proportion of about one in forty of seed. Very occasionally a border of linseed is grown to keep off cattle, or one or two lines of conlander may be mixed with the wheat. The soil is prepared with some care, being ploughed with the bakhar to clear it of the stumps immediately after the harvesting of the previous crop, again in the hot weather and once a fortnight during the jains if the weather permits. Before sowing the soil is levelled by dragging a pathar or plain log of wood over it. The nagar or regular plough is not used unless the field is much overgrown with grass Sowing usually begins about the 20th of October, many people commencing their . sowings from the Dasahra festival. The seed is sown through the tifan or three-pronged sowing drill, but this is heavier and of larger size than the one used for sowing gram and juar, and it is drawn by three pairs of bullocks. The

best rain for wheat is in the first week of October, and if a good fall is received then, a full crop will be obtained even without cold weather rain. Neither wheat nor other cold weather crops are weeded, and after the seed is sown, little further labour is required till the harvest. When the crop has come into ear, a man is employed to watch every twenty to forty acres The harvest begins about the middle of February Wheat is very rarely manured, as the cultivator cannot afford to give this assistance to the whole of his land and he gets a better return from the application of manure to cotton It may be sown in the same field for several vears in succession without material loss, but it is commonly grown in rotation with cotton and juar. Wheat is very liable to just if heavy rain in October or November is followed by close, cloudy weather in the cold season, and occasionally smut attacks a certain number of plants, though this disease has never seriously damaged wheat. Its chief danger in this District is a dry cold weather when the plants are liable to be destroyed by the ravages of white ants The prevalence of high winds, when the plants are coming into ear, causes the grain to shrivel up. This disease is called sop, and also usually occurs in a dry season. Fifty-six pounds of seed are sown to the acre, and the standard outturn is 580 lbs or more than ten-told The crop thus yields a considerably better return than in the northern Districts owing to the tact that little more than half as much seed is used, while the outturn is only some 50 lbs. smaller than in the Nei budda valley. It is said that the seed is sown more thickly in good land and thinly in the poorer soils. The value of the standard crop of an acre of wheat in 1005 was nearly Rs. 10-8-0

114. Linseed (Linum millarisimum) became a popular crop
during the decade ending 1890, the
Linseed, area under it being over 154,000
acres at the time of the last settlement. Since then it
has to some extent been supplanted by til which is now
also in good demand for export and is a safer copy of grow

In spite of the high prices which have been obtained for inseed since 1801, its acrease had declined to 67,000 in 1005-06. It is usually sown in black soil and the method of cultivation resembles that of wheat, but the field need not be prepared so carefully. Two varieties are distinguished, one with a white seed and the white flower and the other with a conner-coloured seed and blue flower. The former is called locally haura and the latter kathua They are grown mixed, but the white variety commands a better price in the market. In Naopur, however, Mr. Craddock states that it cannot he obtained pure in any quantity. The crop is sown in Sentember and cut in February about a month before wheat. The plants are pulled up by the roots and taken to the threshing floor, where the pods are pounded out with a wooden mallet Little expense is incurred in cultivation after the seed as sown, but the plants are very hable to mury from damp and cloudy weather in a cold season. During the wet years after 1802 they were destroyed by a virulent red rust. The colour of the rust which invades Inseed is a brilliant scallet and the fungoid parasite which causes it (Melampsora lini) is of quite a different genus to the rusts which attack wheat. The plants are also sometimes attacked by a small green insect at the time of flowering. When once the plants have successfully germinated, they require less moisture than wheat, and if good rain is received in September linseed will do well in a dry cold weather. The crop is exhausting to the soil and linseed should not be sown twice in succession If a field 19 cropped continuously with it, a parasitic weed appears which resembles the agia plant (Striga lutea) Only 8 lbs of seed are required to an acre, and the standard outturn is 300 lbs., the value of which in 1905 was Rs. 15-8-0.

Tai or arhar! (Cujanus inducus), one of the autumn pulses, is grown almost wholly as a mixture with juar or cotton in

<sup>&</sup>lt;sup>2</sup> The notice on tür is principally taken from Mr. Craddock's Nagpur Seitlement Report.

Nagpui. The net acreage under it was 120,000 in 1902-03. this being the largest figure recorded. In 1005-06 it had declined to 115,000 acres. Some say that the mixture of arhar is of doubtful advantage to cotton, as the arhar plants grow quickly and overshadow their companions furnishes the chief pulse food of the District and is a popular crop. It fertilises the soil both by fixing nitrogen and by the deposit of leaves, and the cultivators fully recognise this advantage, as is shown by the practice of increasing the proportion of tur sown with cotton and juar in the poorer soils, while in rich ones the number of lines of tür is greatly decreased or it is omitted altogether. This pulse, Mr Craddock remarks, is one of the most successful crops produced in the District; it grows both on rich and poor soils, in the cotton, wheat and rice country, in wet and dry seasons. It is liable to be attacked by blight when in the flowering stage, though this disease seldom affects more than a proportion of the plants. Close, cloudy days in the early cold weather will produce caterpillars. Of these, there are several varieties. The tur pod caterpillar which eats into the pod is of a greenish-brown colour similar to that of the pods, and is thus protected from observation. It develops into the tur plume moth. The tur pod fly is a small white maggot, found feeding inside the pod; the fly lays an egg in the pod. piercing the shell with her ovi-positor, an organ resembling the sting of a wasp, and leaving a single egg behind. The fly is a very small black insect, the wings large in comparison to the body. The tur leaf caterpillar feeds upon the small upper leaves of the plant, webbing them together into a small compact mass, within which it lives. The webbed leaves are very conspicuous, so that the pest is at once recognisable. It does not do much harm, unless the top shoot is bitten through, when the growth of the plant is stunted Tur is also attacked by the gram caterpillar (Chloidea obseleta), a cosmopolitan pest, which infests an enormous variety of crops all over the world It is a large green caterpillar

which sits on the outside of the pod and bites through it, eating the seeds. In the northern Districts the crop may sometimes be killed by a single night's trost, but the weather is seldom cold enough in Nagpui for it to be injured in this way.

The tur grown in the Nagpur plain and Berai is quite disunct from that of the Nerbudda valley and the northern Districts of the Provinces The habit of growth is quite different, the Nagpur tui being a dwaif bushy plant seldom more than 4 feet high, the side branches being set on at not angles to the main stem, which is very short. The northern variety has a tall narrow columnar habit and is often 7 or 8 feet in height The infloresences are also different in arrangement, being situated on small short shoots airanged at intervals along the side branches instead of all being grouped together at the ends of the bianches as is the case in the northern type of tur The ordinary Nagpur tor really consists of a mixture of three varieties which have white, red and black seeds respectively. These types have been selected out and grown separately and have been found to breed pure. The white seeded kind is stated to be the most popular. Nagput tut also differs from northern tur in its period of ripening as it is leady for cutting in December, whereas the latter does not ripen until the end of March. This is apparently a permanent character, and does not depend on the climate, for Nagour tur has now been grown at Hoshangabad for three years and still upens at the same early date. Attempts have been made to introduce this tur into the northern Districts as it escapes the January frosts which are often disastrous to the Deshi tür, but they have been only partially successful, one of the chief reasons. I think, being firstly that the outturn of the local variety is much better than that of the Nagpur tur and secondly that the Nagpur variety seems more liable to insury from insect and tungoid attacks. The chief disease affect-

<sup>1</sup> Maxwell-Lefroy's Indian Insect Pest, pp 141-144.

ing for in the Nagpir plain is the for will disease which is said to be caused by a species of Nectar. This disease may occur at all stages of the plant's growth, but is most common when the pody have formed and the plant is nearing matuity. Plants affected first turn a paler green in colour and then rapidly will or droop and the whole plant dries up. Absence of proper rotation and unsuitability of soil are probably two of the chief causes of the occurrence of this disease. Tar sown in land which is at all liable to waterlogging in the rains is very liable to wilt.

Tar cannot be sown with the tifun, as the seeds are too large, and the mārı or plough with a seed-tube behind it is used. When grown separately about 10 lbs of seed are required for an acie and the outturn is 500 to 600 lbs. The stalks, called twalti, are soaked and dired in the sun, and are used to construct grain receptacles, made into brooms for sweeping, or plaited into matting for protecting the mid walls of the cultivator's house from the heavy downpour of the monsoon. The stalks are also useful as fuel, the chaicoal obtained from them being prized for the manufacture of fireworks.

Til (Sesamum indicum) is a crop which was growing in layour at last settlement, when it Til. covered 36,000 acres. This area increased to 76,000 acres in 1902-03, but has since largely declined to 24,000 in 1905-06. It is one of the crops which have had to make way for cotton. There are two varieties. dhauri or white-seeded til, which is a rain crop, and magheli or boria, 1ed-seeded til, which is sown in August of September and tipens in the cold weather, being called magheli because it is harvested in the month of Magh. The white-seeded variety gives 49'9 and red-seeded 50'2 per cent, of oil The former is sown in poor soils at the end of June or the beginning of July. It is of little importance in Nagpur, the maghel? til being usually grown. This is a profitable crop, but requires favourable weather at sowing time. If there is heavy rain at this time the seed cannot be sown, or may be washed out of the ground, and the plants are stunted. When August is very wet the cultivator will not sow til, but will keep his land for a spring ciep. When the crop is well established it can do with very little iain. Thus in 1896-97 with no rain in September and October til gave more than a normal haivest A pound and a half to two pounds of seed suffice to sow an ance and the standard outturn is 2 zo libs.

117. Of pulses gram (Cicer arietinum) covers about 14.000 acres, having declined from Other pulses 27.000 acres at settlement. This pulse appears to be much less in favour in Nagpur than in the Northern Districts Tiura or lakh (Lathyrus sativus) covers about 30,000 acres, but its area reached 56,000 in 1893-94. The other pulses, masur or lentil, and peas are very little grown All of these are sown with the aid of the tifan, the seed required for gram and masor being about 40 lbs per acre and for tiura and peas, 50 to 60 lbs The outturn varies between 360 and 720 lbs , and 540 may. Mr Ciaddock states, be taken as a mean The standard outturn for gram is 600 lbs and for tiura 400 This latter includes two varieties, of which the larger, known as lakh, is grown in the open wheat-fields, while the smaller, called lakhori, is sown as a second crop in the standing rice. Lakh supplies a useful food for cattle, but is not fitted for human diet except in small quantities, as it produces an incurable paralysis of the lower limbs. But the small variety, lakhors, is believed to be harmless. The difference in the propreties of the two grains is the more remarkable, as botanically the plants are indistinguishable from each other These pulses often thrive both in dry and wer years when linseed and wheat suffer, but very dry and cold or cloudy weather, inducing the attacks of insects, sometimes prove fatal to them. t Mung (Phaseolus mungo), urad (Phaseolus radiatus) and moth (Phaseolus aconstifolius) are autumn pulses which are sown mixed with juar. Urad is also grown as a second

<sup>1</sup> Nagpur Settlement Report, para, 112

crop after rice Popal (Dolichos lablab) and kullhā (Dolichos uniflorus) are sown separately, the latter being produced on the very poorest soil

118. Rice (Orvea sativa) covered 21,000 acres in 1905-06 as against 32,000 at settlement. The Rice. 1 tecent dry seasons have been unfavourable to this crop, but the construction of the Ramtek reservoir will no doubt give it a great impetus. It is grown in the Deolapar tract of the Ramtek tahsil and the Ambora pargana of Umrer About five-sixths of the rice grown is transplanted Transplanting operations are carried on in the last part of July and in August, and if unduly delayed. either by the neglect of the cultivator or for want of sufficient water, the welfare of the crop is seriously endangered. If the plants have been left too long crowded together in the nuisery they become unhealthy and do not thrive properly in their new surroundings, and there is the further risk that, their growth having been impeded, their coming to maturity will be delayed so long that the heat of October will dry them up before the ear can duly fill The careful weeding of the rice crop is also most necessary for its welfare, or the plants will soon become choked by weeds . but the great essential in this clop is the water-supily, and the neglect of the cultivator to look after the small embankments with which the rice-plots are surrounded, is often faral to the success of the crop if the autumn be dry Broadcast rice is sown near the Bhandara border in embanked fields where the after-crop of wheat is the main consideration, and elsewhere in the District in low-lying patches and pockets In some of these fields quite phenomenally large yields are obtained, but on the other hand much of the crop is sown on poor land. The seed sown varies from 50 to 100 lbs an acre and the standard outturn is 1200 lbs.

r This paragraph is taken from para. 111 of the Nägpur Settlement Report

chinnur uce, the best quality of the Waingangā valley, is grown to some extent in Nagpur.

119. A minor crop of some importance is flax or sanhemp ( Crotalaria juncea ) which covers about 3000 acres. Culti-

vators of the higher castes will not grow this crop as it is considered to be unlucky or unclean. The objection probably arises from the dirty nature of the process of retung and separating the fibre. This also requires a considerable amount of dexterity for its rapid and successful accomplishment, and a novice would find the drawing out of the fibre somewhat difficult The crop is, however, a paying one both for the yield of fibre and from its fertilising action on the soil. It is principally grown by the caste of Bhamtas who also weave ropes and gunny-bags from the fibre. Tenants who will not grow hemp themselves frequently subjet their fields to a Bhamta so as to get a crop of hemp taken off them. The colony of Bhamtas in Makardhokra, who work up their own produce into rope and sacking, was, Mr Craddock stated, an extremely prosperous one. The crop is sown very thick and matures rapidly. The value of the fibre at settlement was Rs. 20, and of the seed, which is led to cattle, Rs. 8 an acre The price of the fibre has since increased

120. Castor (Rictinus community) covers about 3000 acres.

2 Castor seed gives 46's per cent of oil. Many cultivators grow a small patch of it in a corner of one of their fields, and use the oil both as a modicine and as a lubricant for the wheels and axles of caris Castor oil was formerly a common agent for lighting, but it has generally been supplianted by kerosine oil. It is sometimes grown as a regular crop in villages bordering on the jungle as wild animals will not eat it, the oil exercising the same disfigreeable effects upon them as upon human beings. Castor is in general a bealthy plant with few pests. Castor is no general a first and offit and sometimes come in vast numbers, cleaning the

plants of leaves in a very short time. Three species are represented, being totally distinct and easily recognised

121. Tobacco (Nicoliana tabacum) occupies about 600
acres. Its cultivation is confined to
patches of land adjacent to the

village and to gardens at the backs of houses, which are naturally ferthised by dramage, while manure and sweepings can easily be deposited on them The seed is sown in July in a well-manured nur-ery bed, the seedlings being transplanted in August. The crop receives several hoem. Is and dressings with firesh earth from time to time. In February the plants are cut down and the leaves spread out for a week to dry, after which they are made into heaps, damped again with a little water to keep them soft, and covered with grass or straw. After being cured in this manner for a few weeks they are made up into larger bundles and, so far as the cultivator is concerned, are ready for the market? The value of the crop on an acre is about Rs 60 and the net profit Rs. 20.

Sugarcane in the District and has now almost entirely ceased, the area under the cane in 1905-06 being less than 100 acres. It is all grown

with well-water in Nagpur, tank irrigation being unknown. The Kal-his settled on the sewage farm near Nagpur, with unlimited manure and cheap irrigation, were almost the only cultivators, Mr. Craddock wrote, who were able to produce sugarcane year after year with undiminished vigour and profit, and he had known the crop on one acre to sell for Rs. 300 It is believed however that even they have now given up its cultivation, being unable to compete against the Northern India crop, irrigated from tanks and canals.

Condiments.

Condi

<sup>1</sup> From para. 118 of the Nagpur Settlement Report.

<sup>&</sup>lt;sup>2</sup> Nagpur Settlement Report, para, 118.

Nagpur Settlement Report, para. 117.

lings are carefully transplanted by hand. The crop upens from January to March The yield of green chillies from an acre is between 40 and 50 cwt, when irrigation is used and from a dry crop about a third less. When died the weight shrinks by 7- per cent. The value of the crop on an acre is about Rs. 100 and the net profit half this amount. The selling price is Rs 30 to Rs, 35 a khandi of 480 lbs of dried produce Chillies are grown alone in Umrer and in Katol are commonly mixed with castor. In Umrer they are cultivated almost like a field crop, and most of the malguzars in south-Umrer have some favourite natch in their home farm in which they take great pride. In Katol the Raghyi Rasputs grow chillies a good deal, and their wives and children assist in their cultivation. Turmeric is extensively grown in the garden villages of the Katol tahsil, more especially in the neighbourhood of Mohpā and Pāradsinghā. Its area is about 200 acres. Twenty-eight cartloads of manure are required to an acre and on an average the crop has to be watered forty-eight times and well weeded three times. The roots have to be dug up and boiled in a cauldron before they are ready for market, while the selection of seed involves some trouble and expense at harvesting. Turmeric cultivation is therefore expensive and as the price is very variable it becomes a speculation. A garden of an acre in extent would produce about 800 lbs. valued by Mr. Craddock at Rs. 100, while the expenses, exclusive of rent, would be about Rs. 70 Onions, carrots, brinjals, garlic and yams are some of the principal vegetables grown.

124. The following extracts are taken from Mr. Craddock's description of the cultivation of Singhara. singhara or water-nut and the hetel-vine.

Singhara is grown in the beds of tanks by Dhimars or fishermen. In October-November singhara fruit is sown in the bed of the tank, the portion selected having been free

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from singhara in the previous year. The nuts must necessarily be sown in shallow water, or even in mud, on ground which will subsequently be flooded during the fruit season months' time the shoots which spring from the fruit have come to the surface of the water in the form of creepers Cuttings from these creepers are then transplanted in another part of the tank which is cleared of weeds and other rubbish for the purpose These, in then turn, spring up to the surface, and some of their branches are tied together and planted again in the mud of the tank by the side of the parent creepers. In this way the planting of the singhara is carned out by the beginning of the rains. From the end of July the earliest planted creepers begin to yield the nut; the later ones follow in October, and the crop continues from both up to the middle of January There is thus always singhāra, at some stage or other of growth, in a tank devoted to its cultivation. The crop is roughly computed to yield produce to the value of Rs. 90 to Rs. 120 per acre in the course of the year The chief expense of singhara cultivation consists in the clearing and transplanting operations, and the work of clearing the creepers of weeds and insect parasites is also troublesome, but the right of cultivating the nut is generally leased along with fishing rights by families or communities of Dhimars, and the labour is thus easily carried out by the lease-holders themselves. The cultivation of singhara is said to foul the water of a tank so as to renden useless for irrigation purposes, and this is especially the case when the water is required for ban cultivation. No pan cultivators will allow the Dhimais who fish in their tanks to grow singhara. It was a matter for consideration whether the Dhimar who held a lease of a tank, should not be considered as a cultivator and awarded tenant right. But no such claim had ever been put forward by the Dhimars themselves and Mr. Craddock decided that such a grant would be contrary to immemorial custom and prejudicial to

the interests of the proprietor and the community in general, whose rights of user might be infringed.

125. The leading characteristic of pan cultivation is that it is not carried on by an indepen-Retel-vine. dent cultivator, but depends for its success upon the community or a section of it. The whole community is divided into sections, consisting of an association of cultivators combined to make a tanda or enclosure. in which the pan creepers or vines are grown. Every pan tanda has a corresponding area of fallow attached to it, and after the pan has held the ground for three years, the tanda is taken up and a new one made on the fallow, to be re-transferred to the old site after three years have again elapsed. The materials for constructing the enclosure are collected during the cold and hot seasons; the site for the enclosure being prepared by the deposit on it of earth from the bed of a tank This is spread over it to the depth of three inches The erection of the enclosure is a work requiring almost mathematical accuracy. The stout bamboo supports, in height over six feet, have to be fixed in the ground at equal distances from each other. The outside walls have to be thickly thatched with coarse grass and bamboos, so as to effectually protect the plants from the wind. A roof of bamboos has next to be made, thinly and lightly thatched with finei grass, so as to mitigate the sun's rays without unduly excluding the light Meanwhile, the inner rows of trellis-work have been constructed, the supports of which perform the double duty of bearing the weight of the roof above, and strengthening the structure of trellis on which the creepers climb. I or the supports, poles of khair or tendu wood are used. They are fixed at distances of 44 haths, or roughly seven feet, and between them are the thin uprights and cross-sticks (kamchis) made of split bamboos which make up the trellis. Those uprights are erected, twenty-five on either side of the closs-sticks, or fifty in all, in the space between two poles, which is

known as kuntar. There will thus be fifty plants (one on each kamachi) in each space or kuntar. The whole thinda is made up of a number of rows, two feet apart, a row being known as wali. The minimum holding of a cultivator is one row, but as the rows are of unequal length, the standard of a lämb or row of isoo feet long with the ordinary width of two feet is taken. The lāmb may be several actual rows and a common form of it is six rows of 250 feet, when it is called the chhepat or six-fold. The area of a lāmb is 3000 square feet, about 14 lāmb going to an acre.

126. The payments are assessed on the lāmb, the cultivator's holding remaining con-Cost of cultivation stant for three years. The two outside rows of every tanda are held free, as the yield, owing to exposure, is smaller than that of the inside rows. The holders of these free rows are termed inamdars and it is their duty generally to supervise the cultivation of the tanda in its co-operative aspects. As regards the cost of cultivation, Mr. Ciaddock found that the expenditure on making the tanda or garden was Rs. 62 per lamb in the first year and on its maintenance Rs. 17 in each of the two following years. The return was practically nothing in the first year, Rs 97 in the second and Rs. 117 in the third. Taking the average for the three years, the average annual income per lamb was Rs 40, and the rent Rs 6 The net annual profit was Rs. 34 per lämb or nearly Rs 500 per acre. One acre of cultivation supports five or six families Two-thirds of the expenditure on the garden consists of the cost of forest produce. Oil-cake and ghi are used to manure the plants as well as silt from the bed of the tank When once the plants have attained maturity, the plucking of the leaves goes on at short intervals. The outturn is computed in thasas or bundles, which are said to contain 16,000 leaves each During the first year only a few leaves are obtained. In the second year each lamb gives 17 bundles of 16,000 leaves, and in the third year 19. The wholesale price of one thasa or bundle was Rs. 8 when picked in cold weather, Rs. 5 m the rains and Rs. 4 in the hot weather. The rate has no doubt increased since Mr. Craddock whote.

127. Among first trees, mangoes cover about 500 acres,
oranges 1200, guavas 300 and plantains 500. The following interest-

Mangoes ing notices of these fruit trees are reproduced from Mr Craddock's Settlement Report on Nagpur :- It is a meritorious act to plant a mango tree on 'account of the fruit and shelter which it yields. The young ' plants will require watering for the first two hot weathers of their existence and fencing as a protection from cattle 'for a longer period The ownership of a mango tree is 'hotly contested on grounds both of sentiment and profit. 'The local fruit is extremely unpalatable to Europeans, its 'substance being stringy with a strong flavour of turpentine. · They are, however, largely eaten by the natives, both raw 'and in the form of pickles, and in a good mango season ' fruit sellers will offer some of their over-ripe stock at the 'absurd rate of two annas a hundred. Graft mangoes of 'esteemed varieties are found in the gardens of a few rich 'men. It is a common saying that mangoes will produce 'a crop only every other year. This is not strictly correct. 'A good crop is generally followed by a meagre one and occasionally the yield fails entirely. It would be more 'correct to say that a period of three years sees a good 'crop, a moderate crop and a poor crop. It is impossible 'to estimate closely what a mango tree should yield except ' by experience of what it does yield. Some trees seem to 'resemble the barren fig tree of the parable while others ' produce fruit worth Rs. 25 The mango flowers profusely 'in February and the fruit is ripe in April and May. High 'winds or hailstorms during the flowering period are the 'chief danger to the crop '

128. 'Unlike the mango, the guava (nim) is cultivated
Guavas. 'and care when young and is the
better for it afterwards, but when once established it will
'produce fruit without irrigation. Some of the finest guavas
'in the District are produced in the gardens near Takalghāt.'
'It grows only in good soil. The guava crop is at its
'height during the month of January'

height during the month of January'
129. Plantain patches are scatteded over the District,
the trees being allowed to stand so
Plantains. long as they produce fruit. System'atic cultivation of the plantain is confined to the valley
of the Sur rivei, the tract near Kodamendhi in Ramtek
'tahsil and the viemity of Waroda on the Bhandara
'toad. Here the plants are propagated from shoots in
'a small patch, and every third year the trees are cut
'down and fresh shoots planted in an adjoining plot.
'The local plantain is not remarkable for its quality or
'flavour, and of late years its cultivation has declined in
'popularity'

130 The Kanhan valley to the north of Kamptee abounds in grafted wild plum trees, which are grown both in plantations and along the borders of fields. The trees are grown from seed and cuttings are gratted on to them. The fruit is sent for sale to Nāgpur and exported in small quantities to Bombay and Calcutta, the price obtained being from 16 to 44 seers a rupee. Lemons, sweet limes and the pumelo (Citrus decumana) are all produced in the District, but never monopolise a garden.

131. 'The fruit, however, which requires the greatest outlay and labour on the part of the cultivator is the orange. Nagpur 'oranges have an established reputation. The outer peel is 'easily removed and the inner skin is very thin, while for

<sup>&</sup>lt;sup>1</sup> Nagpur Settlement Report, para, 123

' juiciness and sweetness they cannot easily be matched, ' Thousands of baskets of oranges are sent away darly during the orange season to Bombay and other parts of India, and quite humble classes of cultivators will now start ' orange gardens, which were formerly the luxury of a few ' well-to-do landlords. A drawback to the industry is the 'time which must elapse before the full benefit of the 'outlay is leaped. For the first three years after the young ' cuttings are set in the ground no crop can be gathered, ' and there is large expenditure on manure and irrigation, ' which can only partly be recouped by sowing vegetables ' between the young plants After that period it is no longer ' possible to grow vegetables in the orange gardens, but 'a small fruit crop is obtained; the trees, however, do not ' reach maturity till the expiry of seven years. Two crops ' are obtained in the year, in the early autumn and early hot ' weather.'

The following particulars about orange cultivation are taken from an article 1 by Rai Bahadur R S. Joshi, Assistant Director of Agriculture. Tradițion relates that the orange was first introduced into Nagpur by the Bhonsla Raja, Raghuji II, about the end of the 18th century from Aurangabad and Sitākol. There is only one variety, locally named santrā All the plants are propagated by budding, growth from seed not being practised. The stock generally used is the sweet lime (Mitha nimbil), and less frequently the common citron (samburi). Buds of the orange grafted on the latter stock produce trees which yield fruits with a very loose skin, while those on the former stock have a more closely adhering jacket, showing that the stock has a distinct influence on the bud. The seeds are sown in baskets and subsequently twice transplanted into seed-beds and nursery plots, and in two years' time are ready for budding, which should be done between November and January when the sap

<sup>2</sup> Published in the Agricultural Journal of India, January 1907.

is flowing upwards. In the following August the young trees are planted out into the permanent orchard the bud begins to grow freely the main shoot of the stock is severed The trees are planted from 15 to 18 feet apart and from 100 to 200 go to an acre. The orange tree blossoms twice a year, once in June-July and again in December-Ianuary. The first flowering is called Mrig-bahar, because it occurs in the nakshatra of lunar mansion of Mrie or the deer. The second is called Ambia-bahar, because it occurs in February at the same time that the mango tree (am) flowers The crop ripens eight or nine months after the flowering in March and December respectively, and on occasion the fruits of the two crops may be seen on a tree at the same time, one freshly forming and the other ripe. But the good cultivator, Mr. Joshi says, does not allow the tree to bear two crops, and prevents this by exposing and cutting off the smaller roots before the time of flowering, so that the sap ceases to run, the leaves drop off, and the flowering is postponed. For details of the cultivation the reader must be referred to Mr. Joshi's article. With careful cultivation, weeding and irrigation, the young plants commence to bear fruit in the third year from the time of budding or the sixth from that of sowing seed While the trees are immature, crops are sometimes grown in the plantation, but this practice is to be deprecated. In five years from the time of planting the trees will give a full crop, continuing for some eight or ten years, after which the yield gradually lessens It is advisable at this stage to start a new plantation in the intervening spaces. The orange tree has an average height of 16 feet, with a girth of about 30 inches, while the circumference of the crown is about 40 feel. A good tiee in full bearing may give about 1000 oranges. The bulk of the crop is consumed locally, but about 600 tons may be exported annually to Bombay and Calcutta. The fruit is carelessly packed in rough bamboo baskets. It is not exported to Europe at present. The average price at Nagpui is about

Rs. 3 a hundred The most serious disease of the Nagpur orange tree is caused by fungus, which results first in a withering of the tips of the branches, the rot gradually extending down the branches until the whole tree is worthless. This disease has not yet been studied, and at present the only remedy which can be suggested is to cut out and buin the infected portions of the branches. The orange also suffers from the attacks of several insects, the most harmful of which is a borer beetle. The female generally lays its eggs on the branch or stem of the plant; as soon as the larva is hatched, it eats its way through the bark into the wood This attack on the bark and sap of the tree causes the branch to wither and may kill the tree. Its attack can generally be discovered by the presence of saw dust at the mouth of the hole. The branch may be cut off or if the hole is in the stem, an attempt may be made to kill the insect by inserting a wire into it or syringing it with kerosine oil and water Another caterpillar feeds on the leaves and there is also a minute pest which bores into the fruit. The best year for oranges was 1894 when nearly all field crops suffered from rust and blight. The drought of 1900 severely affected the plantations and many trees died. The area of the crop is about 1200 acies. 132. The principal agricultural implement is the bakhar

Agricultural implements. or surface-plough The share of this is called *phās* and consists of an iron blade about 19 inches long

an iron blade about 19 inches long and 2 to 3 inches wide fixed horzontally into a flat block of wood called khed. It is drawn by a pair of bullocks and is used both in preparing the fields for cultivation, breaking up clods and harrowing the surface, and sowing cotton, juar and arhar. Deep ploughing is done with a magaror ordinary plough. The blade of this is called phât! and consists of a pointed iron bar, about 3 feet long and an inch square, fixed latto a heavy wooden body called dâtd, beneath which it

projects about 6 inches pointing downwards and forwards as the plough is driven through the ground. The nagar is used for the breaking up of new land or occasionally for the eradication of weeds It is seldom employed in heavy black soil because of the labour involved to the bullocks, while if rain should hold off after land has been ploughed with the nagar the soil will dry too rapidly and become unfit for sowing. No risk is involved if a field intended for spring crop is ploughed early in the rains, but the nagar is seldom used, unless the field is much overgrown with grass. Experience gained on the Nagpur Faim, so far as it goes, indicates that the best results are obtained by deep ploughing and harrowing in alternate years, but this experiment needs demonstration over a wider area before it can be decided whether the cultivator is right or wrong in his sparing resort to deep ploughing 1 The nagar requires two or three pairs of bullocks to draw it. The bodies of both ploughs are usually made of babul wood (Acacia arabica). The tifan is a trebledrill rake by which three furrows are sown at once The drills are fixed into wooden sockets or datas projecting from the body of the plough, and point downwards and forwards like the share of the nagar. Above each drill is fixed a bamboo tube through which the seed trickles, and the three tubes meet in a circular wooden basin at the top into which seed is fed Two tsfans are used, one for sowing the autumn and the other the spring crops. The latter or rabi tifan is heavier, as the ground is haider when the spring crops are sown and the drills must be forced into the soil. It has long pointed drills, each like the share of the nagar but somewhat shorter. The autumn or tusting taken is a lighter implement with shorter and thinner spikes, as the ground is quite soft at this time and the seed need not penetiate so deeply. It is used for sowing juar and til. The tilan has been improved in recent 'years, the regular shares or spikes having

<sup>1.</sup> Nagpur Settlement Report, para, 93.

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been substituted for bathālās or small iron cups which were formerly fixed on to the wooden sockets. These need not penetrate into the ground properly and the substitution of long shares has caused sowing to be performed more efficiently, though at the same time rendering it a more laborious process The tifan used for sowing the spring crops must be drawn by two, three or four pans of cattle. In the case of cotton the seed as already stated is sown through a hollow hamboo tube or sarfa trailing behind the bakhar, the space between the lines of cotton being thus equivalent to the width of the share. Rice is the only group sown broadcast. The daura or hoe-plough is an implement like a small bakhar with a horizontal blade 6 inches long and 2 or 2 inches wide. This is used to weed the autumn crops as mar, cotton and tor and to turn up the earth round their roots, first when the plants are a few inches above the ground and again a few weeks later. The bullocks are muzzled and tread between the lines of the crop, two daurals being often drawn by a single pair of animals. Delicate manipulation is required to guide the daura between the lines of the crop without uprooting the plants. The space between the plants is subsequently weeded by hand. The dhundia is an implement like a daura, but with a blade of about 8 or 9 inches long which is used when the plants have grown higher. But crops sown with the tifan cannot be weeded with the dhundia, as the lines are too close. No improvements have at present been made in the ordinary implements of agriculture, but an American fodger-shredding machine for cutting up the stalks of juar has been introduced by the Agricultural Department. and many have been sold in the District. This machine has the effect of greatly increasing the nutritive value of the karbi, which is the staple food of cattle. Many proprietors'in Nagpui subscribe to the Provincial Agricultural Gazette.

133 The advantages of manure are to some extent appreciated by agriculturists, and they do what they can to afford a provi-

sion to the fields. The principal source of supply is from the dung of cattle, but this is also required for fuel. Since the expansion of cotton cultivation, however, many cultivators save the greater part of the cattle dung for manure both in the rainy and onen season, and take their carts to the forests to buy supplies of fuel before and after the rains. bringing three or four cart loads on each occasion dung is kept in surface heaps by which much of its value is lost, and now also not infrequently in pits either open or closed. The sweepings of the house are added to it. and the earth surrounding the sides of the pit is also dug up and placed on the fields. The manure is taken out and spread on the fields in the hot weather. It commands a selling price in Nagour, fetching from 8 annas to a rupee a cart-load. The bulk of the liquid manure is wasted, but a few cultivators dig up silt from the sides of tanks and spread it in the cattle stalls so as to retain the urine. afterwards removing it to the fields. The only other method of fertilisation which is practised is the penning of flocks of goats and sheep in the fields at night. The tenants hire these from the Dhangars or shepherds and they are kept on the fields for a fortnight to a month, one or two khandis (of 400 lbs) of juar or from Rs 10 to Rs. 20 being paid for their use. The pens are frequently shifted during this period. A rate quoted in Nagpur and Chhindwara is R, I a day for the folding of a hundred sheen. It varies with the facilities afforded at hand for grazing and water. The manure available is usually devoted to the cotton crop, from which the largest return is obtained Many cultivators keep goats for the sake of their manure The Kachhis who grow vegetables with manure from the sewage farm in Nāgpur, pay rents of as much as Rs 75 an acre to their lind. One valuable source of supply is lost to the Indian cultivator owing to the feet that cotton seed is not crushed locally. The cotton-meal formed from the seeds after the oil is expressed is a valuable feeding stuff and manure, but this is lost to India as the seeds are exported whole. It is believed that foreign countries discriminate in their tariffs between the oil and the seeds in order to retain the pressing industry in their own bands.

134 Embankment of land, Mr. Gladdock' states, is not a general practice in the District, but the famine years gave an extraordinary impetus to embankment in the Katol tahsil, and particularly in certain villages of the Saoner group. The cultivations of these villages, a malguzar said, 'have begun to turn their fields into forts. The fields 'are surrounded by walls of stone, often pickedoff the surface, and the walls are coated inside with weeds and brushwood in such a way that water passes through in the rains, but 'not a particle of soil is allowed to escape. By this means 'erosion is prevented and the surface gradually becomes more even.'

135 The principal weeds are pidar or kine (Sacchurun spontaneum), algarmati (Cyperus permuta), and bauchi (Psoralea coryliylain) Whon the first named gets a firm hold in a field, it is extremely difficult to endicate it. Constant deep ploughing is the principal remedy. Nagarmatic less difficult to deal with, but its intricate root-system and long-lived nodular roots make its final eradication difficult. Kinidā is another troublesome weed which has to be finally

<sup>1.</sup> Settle near Regert, para, 55.

Reproduced from near, nor of Mr. Chaddool's Southment Report vith some additions by R. b. R. S. Joshi of the Agricultural Department,

uprooted, but it generally appears in patches and seldom spreads over a whole field. The bauch is a noxious weed of very little use to man or beast. Chido (Scirpus maritimus) and lunt (Portulaca quadrifida) are very troublesome weeds of the garden crops. Chakravak, also known as pig-feed, is a weed which grows profusely throughout the cold weather, many millions of seeds being clustered together in bunches on various peduncles. Kamă is a troublesome weed of the autumn crops Though easy to uproof, its succulent leaves will retain their vitality even for fifteen days, and will take 100t again with a slight shower of rain. It is called Diwalva. as it dies a natural death at the Diwah (November) Ranbhinds (wild bhinds), Ranbatana (wild batana), and wild rute and wild indigo are named from their resemblance to the cultivated crops of the same name Tore and sava (Panicum crus-Galli) are weeds of tice, which in the early stages of growth are almost indistinguishable from the rice plant. Many of them are transplanted with rice and are uprooted when come into flower. The latter plant is also known as Deodhan or God's rice, as it grows wild

rg6. The following notice on the working of the Nagpur

Agricultural Farm has been continuted by Mr G Evans of the

Agricultural Department.—

Agricultural Department.—

An old model fairm existed at Nagpui for many years, situated between Lendhrā village and the jail This was abolished in 1883, and an experimental farm started on the present site between the Mahāraj Bag gaidens and the Ambājherl road. The farm was at first only 90 acres in extent, but in 1906 was increased by the addition of another 190 acres. The land consists of black cotton soil, of moderate depth, but much of the new land is uneven and in poor condition. An Agricultural College is situated in close pioximity to the farm, and practical training is thus afforded to the students.

The experimental work which may be taken as the main business of the farm is carried on in connection with manures, rotation, tillage, the improvement of crops and the introduction of new processes and implements. Only a few features of it can here be mentioned. The advantages of growing a leguminous crop as a mixture such as a har with cotton or gram with wheat have been conclusively demonstrated Juar grown after cotton mixed with other does much better than after cotton alone; it does still better after san-hemp. It has been found that the Swedish plough which turns over the soil to a depth of 7 or 8 inches gives a much better wheat crop than the cultivator' napar, but even this gives better results than the bakhar c. scarifier, though the latter is generally used in Nagpur Improvement of local crops by selection is being started and the cultivators eagerly take the selected seed. Hybridication has lately been started, the local jari and bank varieties of cotton being crossed with foreign varieties, with the object of obtaining the hardy constitution of the former combined with some of the good lint qualities of the latter. In the case of wheat the main object in view is to breed if possible a rust-resistant wheat. Experiments are continually made with new varieties of various crois from other parts of India and foreign countries, and when favourable the seed is disiributed through the District Agricultural Associations for further trial. A good variety of juan from Saoner was discovered in this way and its use is now spreading elsewhere Cottons have generally proved extremely disappointing and only one acclimatised American variety shows any promise. A variety of maize introduced from Jaunpur has vielded well and is now in fair demand. The cultivation of the ground nut is becoming more popular and better varieties have been introduced from the Madras-Presidency. The method of preventing smut by steeping the seed in sulphate of copper has been introduced by the Agricultural Department and is now in common practice. Efforts have been made to

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improve the conservation of manure, and what is known as the dry earth system seems to be the most effective. The floors of the cattle-stalls are covered with a thin layer of dry earth which is removed every few weeks, and in this way a considetable loss of the valuable volatile constituents from evaporation is prevented, as the various gases are absorbed in the div earth. Between the years 1808-1006 a large number of improved implements have been introduced and sold through the agency of the Farms Among these the following sales have been made to private persons, excluding those sent to other demonstration farms or Government officials -Of fodder cutters for man 112 have been disposed of, principalsy in the Nagpur plain and Berar, in the Nerbudda valley 71 winnowers for wheat have been sold, and last season the demand for a new sheet iron winnower was so great that the Department could not comply with it, of Swedish and Turnwrest ploughs 82 have been sold, the latter being specially in demand for the eradication of kans grass; while other implements disposed of include hand-threshers (7), corn shellers (10), sprayers (28), sugarcane mills (3) and bullockgears (18)

127. The following statement is a rough estimate of the total value of the crops of the Dis-Total value of grops. trict, taking the standard outturn on the area cropped in 1905-06 according to the prices ruling in that year. The values are not accurate, because the wholesale rates are only available for the important staples, and for the others the retail rates have had to be taken. In order to make some approximation to accuracy however, the retail rates have been reduced by 10 per cent, But it is probable that another 15 per cent, should be deducted in order to arrive at the amount actually received by the cultivators. The total value of the crops calculated by the above method comes to more than 21 crores, while the valuable bye-products of juarstalks and cotton seed are worth another on lakhs or a total of more than 31 crores, as against two crores and 30 lakhs at Mahur cattle are red, black and speckled, and are very strong, costing from Rs. 200 to Rs. 400 a pair for the best animals. From Chanda they are usually imported into Umrei, from Yeotmál into Nágpur, and from Chlindwara and Aivi into Katol

In 1890-95 the price of a fairly good pair of bullocks 141 was given by Mr Ciaddock as Rs. So Prices and working life to Rs 2001, while Rs. 200 was sometimes paid for a good pair. In 1871 Mr. Low stated in the Gozetteer that the pince of a good pair of plough bullocks ranged from Rs 70 to Rs 150, and of trotting bullocks from Rs. 200 to Rs 250. Mr Craddock considered that the average prices had advanced about 40 per cent, during the intervening period. There has probably been some further increase since the famines, and it is now stated that a first-rate pan for the plough cannot be had in Katol for Rs. 150. But those of the small cultivators do not cost more than Rs 75 a pair As to the working life of bullocks the following remarks made by him may be quoted. 'The bullock is trained to the plough in its fourth year and is 'put to hard work first in its fifth. A pair of bullocks are ' generally considered as being up to full work for six years ' or until they are twelve years old. After this their strength 'is on the decline. They are then sold to a poorer man at a "much reduced pince, and after doing work for, another year or two, are again sold for a nominal sum to a still poorer ' cultivator, in whose possession they die unless they fall into ' the hands of the butcher. I remember one village in ' Umrer with Gond cultivators, in which the bullocks used ' were worn-out animals, and had cost only Rs. 12 to Rs. 15 ' a pair. Of the bullocks in work in the District it is gene-' rally estimated that about a fourth are bred in Nagpur, and 'three-fourths imported from Berar or Arvi' The working life of a pan is generally estimated at twelve years if they are well-fed, and as they are castrated at about three years

<sup>1</sup> Nagpur Settlement Report, para, 104,

old, this would bring their working life to 15 years of age. A plough of land of 4 bullocks is considered to be equivalent to 32 acres of black soil of 40 acres of gravel or bunds soil, the work of dragging the plough being lighter in the latter in 1005-06, there were 235,000 bulls and bullocks in the District, giving a pair to every 12 acres in oillivation.

142 Cows are kept for breeding and for the manure which they afford Cow's milk is not usually made into  $gh\bar{t}$  or melted

butter, and most cows are not milked at all, as the owners consider that the calves will be weakened if deprived of the milk. The best cows of the Gaolao breed will give 14 lbs, of milk if properly ted and looked after, and a few of them are sold to Europeans as milch cows. Cows of the Nagputi breed give about 6 lbs of milk A cow gives a calf as a rule once every eighteen months, and seven or eight calves are obtained from one cow on an average. The price of a cow varies from Rs 15 to Rs 50 In 1905-06, the number of cows was 153,000, giving 66 to a village and less than one to a house-Mr Craddock remarks as follows on the general uses of cattle : 'Cows are not kept for milking purposes, except in the towns, and the reason advanced for the heids of ill-' fed, undersized cattle which one sees in the villages is the ' manure which they yield But, since their feeding is of the ' poorest, and the manuse is mostly wasted in the jungle and ' grazing-grounds, it is certain that the return from these cattle is not worth even the folder which they consume ' In the jungle localities, notably in the Dongartal tract, the 'Gaolis keep buffaloes and breed cattle on a small scale, ' making their profits from the sale of ghi, and there is ' always a sprinkling of cultivators in most villages, who ' keep a few buffaloes for this purpose. No serious attempt ' is made by the people to improve the breed of cattle, but 'occasionally a bull is imported by some enterprising ' mālguzār The Cow Protection Society has acquired a

<sup>1</sup> Settlement Report, para. 140

'village, with extensive grazing-grounds, a few miles 'south of Nagpur, but the place is rather the refuge for 'mornbund animals snatched from the butchers than a

' breeding-ground ' 142. Cattle are fed on karbi or juar-stalks, cotton-seed, straw and arhar Oil-cake is given Food given to cattle rarely, as it is an expensive food. The staple food is karbi, which is fed to them for 6 or 8 months of the year. It is stated that one acre will yield 200 to 350 bundles of karbi, according as the crop is sown. thin or thick. But after the crops are cut the cattle are turned into the fields and with the grazing they obtain from the waste ground, 2000 bundles will last them for a year. About 6 acres of land will therefore afford todder for a pair of bullocks The chaff of juar (kutūr) is also a valuable fodder In the hot weather cattle receive cotton-seed, between 5 and 8 lbs being given daily per yoke. This food is considered to be bad for them in the rains and is not given then. The practice of making cottonseed cake does not usually obtain, and the seeds are given dry and uncrushed. Oil cake of till and linseed is fed to cattle round Nagpur. Mr. Craddock remarks on the subject of food as follows - In the cotton-juar country ' the bullocks are better fed and have lighter work, but ' in the wheat and rice country and especially in the latter, ' they are poorer both in size and strength and are very ' hard-worked. The good cultivator gives his bullocks a ' daily feed of grain for four to six months in each year ' during the season of hardest work-April to November. 'In the cotton-juar country the bullocks have cotton-seed and tor, gram or trura (Lathyrus sativus) and in the rice ' country lakhori or the small tiura and popul beans. The garden bullock is usually the best fed, while the needy ' cultivators' animals have a very wretched existence. They 'have alre dy passed the prime of their strength and are ' over-worked and under-fed. The contrast between the

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'bullocks of a well-to-do malguzar and those of a poor 'tenant is very marked.' Plough bullocks are not usually sent to any distance for grazing, and if there is no forest in the village are left to pick up what they can along the banks of fields. Other animals are sent to the Government Forest of the District and to Berür. In the Katol tahsil there is scarcely any grazing, but in Umrer and the north of Ramtek it is plentiful. Only a few proprietors keep land under grass, as the return, except in the immediate vicinity of Nagpui, is said to be very small Salt is given to all kinds of cattle two or three times a year in July, August and Octobei, in doses of from 10 to 20 tolas. Cows and she-buffaloes also get a little salt at the Diwali festival. Gaolis also give milch cows and buffalo cows a pinch of salt daily when they are milked, while at the commencement of the rains cultivating cattle get a handful for seven days consecutively,

144. Buffaloes are bred in the District and the cows are
valued for their milk from which
Buffaloes.

#### is made, and also for the manure

which they afford. The milk and butter are sold in towns, but Hindus do not care about butter and always turn it into ght by boiling it. The price of a she-buffalo varies from Rs. 30 to Rs. 100 according to the daily supply of milk which it gives, the usual rate being Rs. 10 for every seer (of a lbs.) or somewhat more. No value is set on the male calves and they are frequently allowed to the from neglect, or they are disposed of to the Sarodis, a wandering caste of quasi-religious mendicants, who take them to the rice Districts of Ehandára and Ballaghat and sell them there. In 1905-06 these were 36,000 cow and 6000 male buffalces.

145. Ponies are not bred in the District to any extent worth mentioning, nor is the taste for riding prevalent among the landowning classes. The number of ponies in 1903-04 was 4500 or about two to a village. Sheep and goats are keept by the Dhangars or shepherd caste. The number

of goats in the District is very large, amounting to 124,000 and being the highest figure in the Province Many cultivators have also begun to keep flocks of goats for the sake of the manure which they afford. The Dhangars keep goats for the sale of the meat, and also make ghi from their milk and sell it to the Banias for export, There is no demand for it locally, the people refusing to consume goat's milk either in its natural state or when made into ghi. The Dhangais also let out their herds for being penned on the fields A sum of Rs. 2 for 10 khandlis or 200 goats per night is an average rate, but it varies according to the facilities afforded to the Dhangars by the proximity or absence of water and fodder. Goats sell for two to seven rupees apiece according to their size. Sheep are less expensive, as their flesh is not so much liked as that of goats. The flesh of ewes is also eaten, but not to a very great extent. The number of sheep is 44,000 and this is also fairly high as comnated with other Districts. Sheep are kept for the sake of their wool, from which country blankets are made. Donkeys are kept only by Kumhars and by Dhimars who in Wardha are known as Bhois. Many of these Bhois make a profession of carrying goods on donkeys for hire They also keep pigs and generally occupy a lower position than the Dhimars of other Districts, though Kunbis will take water from them.

146. The local names of the ordinary cattle diseases are phinns, varphinns, and chiangsa tor Disease authorosed diseases, hims to foot-and-mouth disease, militi for inderpest and phopsi for pleuro-pneumonia. Phinns is what is called malignant sore throat, the throat becomes much swollen. The local iemedy is to brand the throat and sometimes to cut the ears so as to let blood flow from them. When the lungs are affected, the disease is called arphinns, and thus is said to be much more fatal. Edungua is apparently the local name for blackquarter, an anthracolid disease in which one of the fore

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ture and is said to appear at intervals of some years. Rindernest is said usually to be prevalent in the hot weather, but accounts, as to the time of its appearance, vary so much that little rehance is to be placed on them. It is generally supnosed to be less common in the Nagoui country than elsewhere. The animal is given ohi and buttermilk to drink to cool the liver, but no medicine is administered Segregation is rarely practised owing to the difficulties which it presents, and the utmost that some malguzais do is to prevent the cattle of their village from mixing with the herds of a neighbouring village where the disease exists. Recently inoculation for rinderpest has had successful results in some villages. Photsi of pleuro-pneumonia is not very common and is not locally considered to be contagious, though as a matter of fact it is so. But cases of inflammation and congestion of the lungs are often mistaken for the contagious disease. Real pleuro-pneumonia is usually fatal and medicine has little effect on it Khurī or foot-and-mouth disease is the most common but is not usually fatal. Ulceis appear on the lips, and blood and pus coze from the hoofs. If the hoofs split, the animal becomes lame for life. Ghi or butter and alum are applied to the tongue, and dikāmāli or the result of Gardenia lucida boiled in linseed or tilli oil to the feet, or a mixture of powdered tobacco and lime. Or the animal is made to stand in mud or the hot refuse of mahua. The disease is most virulent in the cold weather. Two veterinary dispensaries have been established at Nagpur and Umrer.

t47 A cattle-breeding farm for the production of bulls to be used in improving the agricultural markets be used in improving the agricultural between the stables of the southern Districts was established at Telinkheri in 1902, being stocked with a herd of 34 cows, 12 calves and a bull. The cows and calves were all purchased from the famous Jattpur herd of Gaolao cattle, which is considered to be the best breed in the Nagpur country. The young bulls are given on loan to landlords who take an interest in cartle-

breeding, and six Gaolao bulls have already been given out in this way. The herd undergoes a careful inspection annually and all the young bulls and heifers which are not considered true to type or are unshapely or otherwise undesirable for breeding purposes are discarded, the heifers being sold and the young bulls castrated and kept for farm work. To prevent in-and-in breeding the old bulls are replaced from time to time by the best young bulls of the hard. The principal weekly cattle-markets are held at Saoner in the Nagpur tahvil, Umrer in the Umrer tahsil, Ramtek, Khapa and Kodamendhi in the Ramtek tahsil, and Mowar in the Katol tahsii The average number of head old annually at the Khāpa market during the three years 1901-04 was 634 and at Kodamendhi 366. At the other markets the sales are very small. Registration fees varying from one to three pies in the rupee are levied on the sales in most of the markets.

## CHAPTER V.

## LOANS, PRICES, WAGES, MANUFACTURES, TRADE AND COMMUNICATIONS.

## LOANS

118 From 1874 up to 1905-06 a sum of about 21 lakhs had been advanced under the Land Government loans Improvement Loans Act, but of this about 11 lakhs were given out in the famine of 1800-00 and Rs. 40.000 in the famine of 1806-07. Previous to this latter date the amounts advanced were insignificant, while in the five years since 1001 they have averaged about Rs 5000 annually. Improvements are mainly in the nature of the construction of embankments on sloping land, the sinking of wells and the building of tanks in the rice tracts. During the 15 years ending 1904 a total of 216 sanads or certificates were issued for works of improvement. Of these 98 were given for the construction of wells, 15 for tanks and 103 for field embankments, and the total may he said to constitute a very good record for a period of its veats. Their total cost is stated to be Rs 92.000, but this is probably an under-estimate, including only actual outlay, while nothing is shown for supervision or for work done by the proprietors' own servants. And there were no doubt other improvements for which certificates were not given. such as small works costing less than Rs. 50 and maintenance and repairs. During the 30 years' settlement, the sums expended on improvements for the first fifteen years. 1864 to 1880, came to Rs. 1'18 lakhs and for the second fifteen years to Rs. 2 21 lakhs, thus showing a substantial advance during the later period of the settlement : Craddock remarks on this subject: 'It is commonly said that the shortening of the term of settlement must operate to reduce improvements. I do not share this view. I

<sup>&</sup>lt;sup>1</sup> Settlement Report 1899, para, 103

believe that stability of tenue is the essential feature, and, for the rest, the interprise of the individual is the detainming factor I do not see any improvements in villages held on a perpetual mudfi, or in villages buclased free for revenue, which cannot be matched or surpassed in malguaria villages. Indeed the improvements in the formar are singularly few. Ensure a man possession, protect him from arbitrary, as distinguished from reasonable enhancement of his tent, and whether he improves his fand or not will be determined solely by his personal characteristics and the custom of his neighbourhood Moreove by granting mand, for improvements, and exempting them from assessment, we are removing the foculated obstacle to the expenditure of capital, which the topponents of shot-terms extlements so loudly urgs.'

Advances under the Agriculturists' Loans Act are also comparatively small in normal seasons. A total of Ro 170 links has been advanced between 1888 and 1905, the bulk of which was given out during the bad years between 1896 and 1902. During the last four years to 1906, the amount lent has only been about Rs 3000 annually. Practically the whole sum due for repayment under both kinds of loans has been recovered as it fell due and only insignificant amounts have been remitted.

149. Sir Richard Jenkins has left on record the rates of interest prevailing in 1827. At that time the general rate for money

lent on common security was 3 to 4 per cent per month, and never less than a per cent. on the best security or on the pledge of valuables equivalent to the sum advanced. The rate of interest has therefore fallen very greatly at the present time. It is now 12 per cent per annum for landowners of good position and from 12 to 24 per cent. for thenants On grain loans the rate is usually 25 per cent. for the spring crops and 25 to 50 per cent. for the autumn crops and for oilseeds. Loans for seed-grain are

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called bij and those for food while the crops are in the oround porga. As a general rule 2 per cent 15 deducted from the principal sum for measuring fees which the borrower has to pay. Artisans and mechanics of the lower classes have usually to borrow on more unfavourable terms, because of the risk that they will abscond, and are charged three or four per cent, a month, Small moneychangers are known as Khurdias, and either trade for themselves or are employed by bankers and get a percentage on their transactions They give copper and cownes for rupees and take every advantage of inexperienced or unwary clients. Weavers and other handicial tsmen who need advances have commonly to apply to them and are charged exorbitant rates of interest. Business loans are made on hundls on notes-of-hand, usually payable at 61 days The minimum rate for these is 6 per cent per annum. In Nagpur the bills are cashed by brokers who take commission at the rate of half an anna per 100 rupees bills of exchange are issued on Calcutta and Bombay and the rate of discount varies from 5 annas to two rupees per hundred in the busy season, while in the rains they often fetch a premium. Five annas is the bullion rate for Bombay and when the discount rate exceeds this, it is cheaper to import cash. Very large sums of fifty thousand rupees or more will be brought by train in the custody of two servants of a native firm, while sums of some thousands of rupees will be entrusted to a single servant 150 Nagpur, has a branch of the Bank of Bengal

Bankers and moneylenders. leading native firms are Rājā Seth Gokul Dās of Jubbulpore and Diwān Bahādur Seth Kasturchand of

Kamptee. The former has large estates in various parts of the Province, but the latter does not acquire landed property and confines his business usually to cashing bills and making advances to merchants. His firm does the work of the treasury for Government in several Districts. The pimeipal bankers of the agricultural classes are the films of Gopal Rao Būti and the late Vināyak Jageshwar Būti, who are Charak Brāhmans, Gangadhai Madho Chitnavis, a Paibha, Ganpāt Rao Ghatāte and Dhundirāj Atmārām, Marāthā Brāhmans, the latter being of Parseonij Motilāl Agyātām, Sām Rao Deshmukh of Mohpā and Nārāyan Stīdhar Nauk ol Umiei Hiralāl Johii, an Oswal Bānaā, is a laige jeweller, Jamah Dās Potdār, Agarwāl Bānaā, is the broker of the Empress Mills; and Gulāb Sao Lād Bānaā is the largest cloth-meichant in Nāgpui.

When propiletary lights were awarded to the farmers and patels of villages at Castes of proprietors the settlement of 1863, the body of recipients was of a somewhat heterogeneous constitution Puests and officials or court favourites had been granted villages as rewards for petty services or obsequiousness, as the case might be. Dependants or relations of the ruling family, legitimate or illegitimate, husbands of Bhonsla princesses, members of the Maratha nobility and others of less note had similarly acquired possession. Since the 20 years' settlement the constitution of the proprietary body has altered to a surprisingly small degree. The retuins now show 2280 villages as against 2203 at last settlement and 2166 at the 30 years' settlement. Biahmans now own 741 villages or nearly a third of the total number, Kunbis 437, Marathas 259, Muhammadans 130, Banias 112, Raiputs 103 and Parbhus, Gosains, Kirars, Kalars and Tells between 50 and 70 each. Of the villages owned by Marathas, 143 belong to the Bhonsla family and their relatives, of those held by Muhammadans 20 are included in the Sansthanik estate of the Deogarh Raj-Gond Rails who have embraced Islam; while of the 67 villages belonging to Paubhūs Mr Gangadhar Rao Chitnavis has so. Since the 30 years' settlement Brahmans have increased their property by 21 villages, Banias by 33, Telis by 24, Kalais by 33, Paibhūs by 21 and Kirārs by 17.

The Marathas have lost 24 villages, the Rapputs 27, and the Muhammadans 9, while Kunbis have exactly one more village now than then. The moneylending classes, who may be taken to include Banias. Kalars and Parbhus, have thus gained a small proportion of villages, but nothing very substantial. The results appear to indicate that the proprietary class are in a stronger position in Nagpur than in most other Districts. A total of nearly 500 villages including shares are shown to have changed hands between 1804 and 1006, but the transfers must in many cases have been made to members of the agricultural castes. The land revenue assessed on this property was Rs 1'73 lakhs or 16 per cent, of that of the District, and the consideration for the property amounted to ten times the land revenue. During the last four years the consideration for landed property sold privately has been equivalent to a multiple of 20 times the land revenue, while for that sold by order of the Court it has varied between 16 and 41 times. According to this criterion the prices now realised are much better than in the years just before Mr. Craddock's settlement, and the small enhancement of revenue then imposed has had no effect whatever in depreciating the value of land. 152 Mr. Craddock describes the proprietary class as

Character of the properties.

Character of the properties.

The landlords are an exceedingly heterogeneous body, both in class and means Some of them are wealthy moneylenders, while among the co-sharers of a large proprietary body may be found men who watch their own crops Outside the purely agricultural cases there are few proprietors who reside on their own estates

there are few proprietors who reside on their own estates unless these happen to include one of the large market villages. In Nagpur and Umrer tabsils the mālguzāis are generally Brāhmans and Kunbīs and they are well-to-do or rich. The majority of the Brāhmans belong to the indif-

<sup>&</sup>lt;sup>1</sup> This notice is compiled from remarks in the Nagpur Settlement Report and Annexuses.

ferent type. They seldom or never visit their villages and spend nothing in them, but at the same time they do not eject tenants nor enhance rents. The Kunbis look rather to the farming profits to be derived from a careful working of their demesne lands than to the surplus of the rental Being resident in their villages they display more sympathy with their tenantiv than the absentee landloids, and are more subject to the influences of public opinion and less inclined to break away from the traditions of the past The Maiwan proprietors are not model landloids. though by no means so had as many of their species. The large Marwari trader, who engages in commerce and banking, is a highly respectable and dignified member of society. But the smaller man of humble origin, who came from his native deserts with a brass not and loin-cloth and has made his way by netty trade and moneylending, is a veritable Shylock But great or small they are absolutely unfitted by their natural instincts to be landlords, being unable to take a broad view of the duties of the position or to realise that rack-tenting will not pay in the long run. The Tehs are an important caste who, in this District, are properly counted among agriculturists. As cultivators they rank below Kunbis, but their business capacity and ability to make money in miscellaneous ways stand them in good stead, and as a body they surpass the Kunbis in prosperity. The Kalāis have taken extensively to cultivation and moneylending. They show their Bania origin clearly and are without exception the most grasping of moneylenders and the hardest of landlords. They are found as cultivators chiefly in the jungly tracts where they went to supply liquor to the Gonds, and they are now settled on the lands lost by the latter through the same love of liquor. Speaking generally, the malguzars are an extremely well-to-do body of persons with a high standard of comfort. The difficulties in which some of them are involved are generally due to present or past extravagance, except in a few cases of petty

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shareholders where the proprietary body is numerous, and of men who are solely dependent for their support on small and remote properties

153. The principal caste of tenants are Kunbis, Brahmans, Telis and Mahars. The Kunhis Condition of the tenants predominate, but Mahārs are numerous and Mahai tenants are seldom very well off. The Brahmans are often non-resident and are generally well-todo. They either sublet their fields or manage them through hired servants. Telis are always strong cultivators and it is to this class that the most substantial tenants frequently belong. The bulk of the cultivators, however, do not use above the average native standard of capacity, and they are rather a spiritless set and not self-helpful. That there is a very large amount of chronic debt among the cultivating classes is certainly true, and that there are not many cultivators who are quite free from all debt is also time, but a very considerable proportion of those who are indebted have simply borrowed on the security of their crops and will pay off and borrow again on that security. It is believed, however, that the cultivators are beginning to realise the tax which the payment of heavy interest for grain loans imposes on their industry, and that an increasing proportion of them try to preserve their own supply of seed-grain This tendency is accentuated by the fact that they seldom get fair treatment at the hands of the moneylenders, and they are now getting intelligent enough to realise this fact. An inquiry conducted into the circumstances of tenants at the time of attestation for the settlement showed that a quarter of the whole number were free from debt and in prosperous circumstances, and 60 per cent owed a certain amount but were not heavily involved and had not mortgaged their holdings. These are the large class who borrow regularly for the expenses of seed-grain and cultivation and make payment at harvest Only 15 per cent, of the total number were deeply involved or without cattle and in a condition of living from hand to mouth. The results of a similar inquiry given in the next par igsuph shows that the position of the tenantry was distinctly better in 1907 than at Mi. Craddock's sottlement.

154. The following note on the condition of the people has been furnished by Mr. F

Material condition of the people the people Dewai :--

'Since the famine of 1897 the 'Nágpur District has enjoyed an era of increasing prosperity, due chiefly to the development of the cotton industry but also in part to the opening of the manganese mines. The recurring epidemics of plague have at times checked progress, and the wave of prosperity has not 'carried all classes of the people equally far forward, but 'it may be safely stated that never before in history has the 'average material condition of the people in town and 'country been so high as it now is.

'There has been a strong trend of the people to the towns and about one-fourth of the population now lives 'm Någpur City, Kamptee, Umrei, Rämtek and five other towns. In most of these places municipal taxation is now 'twice as heavy as it was ten or fifteen years ago, yet it is 'still very light and is nowhere felt as an appreciable burden on any class. In Nagpur the ster-rate has risen from 'Rs 12,000 in 1891-92 to Rs. 42,000 in 1904-05, and the octroi tax on giain, sugai, and diugs from Rs 80,000 to 'Rs. 1,49,000. Public revenue from municipal land and 'buildings has also greatly improved and the general in-'crease of income has permitted increased expenditure. 'The resulting improvements in conseivancy and drainage, in street-construction and street-lighting, in water-supply, 'and in the machinery for the collection of taxation, a most 'important department of local administration in India, have enormously increased the comfort of life in towns. 'The result has been a steady flow of population from the

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' country and from other parts of India The richer classes of bankers, landlords, traders, industrialists, and profes-'sional men have benefited very greatly by the general prospenty. Even plague has been to these classes rather 'a healthy stimulant than a disaster, since it has induced them to abandon their cramped and crowded city houses ' and to build airy and well-lighted suburban villas furnished 'comfortably in European style. Tradesmen of the middle class are moving in the same direction. The city munici-'pality has provided large suburban areas which are being taken up by private lessees for comfortable cottages. 'In two at least of the smaller towns the traders have ' seized their opportunity very quickly and are building exten-' sively The artisan class reaps its full share of the general 'prosperity These also, with doubled incomes, have 'doubled their comfort in housing, furniture, and clothing. 'It is generally agreed that, next to good sanitation, the 'improvement most conducive to general comfort and 'morality, in fact most civilising, is improvement in house-'lighting Ten years ago not one town house in twenty was 'more than very dimly lit, if lit at all, but the kerosine lamp 'is now common in the houses of all except the poorest class, Other articles besides those of ordinary furniture which one 'most frequently observes are clocks and watches, sewing-'machines, and bicycles. The hand-loom weaver is less 'fortunate than other artisans, but he has hitherto been 'able to maintain successfully his struggle against machi-'nery and he gets very good prices for his cloth. He is 'much handicapped in time of plague because he cannot -'readily evacuate the dwelling which is also his workshop. 'The labouring class in general is in demand everywhere, ' for the cotton mills and lactories, for road, railway, and 'tank construction, for the manganese mines, and for 'agriculture The ordinary wage for both men and women has more than doubled within a few years, and though the 'prices of necessaries have risen also, the balance is in

tayour of wages. Whether the material condition of this class has greatly improved is however a more difficult question to decide That it has more spare money avail-'able is clear, but it is clear also that much of this is misspent on excessive stimulants, on cheap cigarettes, on sweet colouied drinks and on worthless trinkets. The blabouring family which formerly lived in a country village, 'and earned only Rs. 7 or Rs 8 per mensem, had at least 'a comfortable village house and small garden. It now earns from Rs. 15 to Rs. 20 per mensem but lives too often 'in a wretched but in one of the overcrowded quarters of the city. It is true that in former days it suffered the 'privations of occasional famine. From these it is now 'fairly secure, but it is exposed to the still greater peril of plague The crying need of the labouring class in the 'city and in the larger towns is for better housing. For 'this the labourer is quite able to pay, but hitherto 'private house-builders have not come forward to supply the demand, possibly because plague epidemics render 'evacuation so frequently necessary But an important 'experiment has been undertaken by the management of 'the Empress Mills with the object of housing its oper-'atives. Should this succeed it is possible that the city municipality may push the project further. Meanwhile 'the labourer, though badly housed and much exposed to plague, continues to concentrate in the industrial 'centres and to work and live there with great apparent 'cheerfulness

'Three-fourths of the people of the District live in the 'villages and depend chiefly on agriculture. These have been affected closely by the great change in cropping 'which has occurred within ten years owing to the increased profits of cotton-growing. That clop has 'greatly extended at the expense of wheat and of all other clops except the juar millet. The change has benefited all classes of the agricultural community.

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non-resident landloid, it is true, seldom makes a large profit from his home farm and his rents are so much limited ' by Revenue law that they necessarily stagnate, but the value ot his land has greatly increased. The resident landlord ' and the better class of tenant farmers have made small for-' tunes and almost all the smaller cultivators have improved 'then position. The following statistics about tenants are ' derived from a special enquiry instituted in the early part of 1907 The A class tenants form 8 per cent of the ' farmers They have no debts and each owns usually 20 ' cattle and one or two carts worth about Rs, 800, with ' 50 acres worth about Rs. 3400 They have also unknown ' stores of silver. The B class men number 19 per cent. ' and each has a debt of about Rs. 50 but possesses 14 ' cattle and a cart worth Rs. 500 and 36 acres worth 'Rs. 1350 A proportion of 56 per cent, of the cultivators ' come into the C class, each of whom, on an average calculation, has a debt of Rs 100 but owns 5 cattle and a ' cart worth Rs. 110 and 18 acres worth Rs 470. Only 17 ' per cent, are distinctly poor men who have a debt of about 'Rs 35 and 20 acres of poor land worth Rs. 440 The ' average net income of all classes from agriculture alone is ' from Rs. 25 to Rs 30 per mensem, and even the poorest ' men are at present solvent Many cultivators add to their ' incomes by the carting of cotton, timber, and manganese, ' but it is to be regretted that the improvement of the Dis-'trict roads has hitherto been slow. The only inconve-' mences generally felt by the farmers are the lack of labour ' and the difficulty of feeding stock now that the area under 'straw-growing crops has diminished The general con-'ditions of village life have improved. House-lighting is ont so good as it is in towns, but it is much better than it ' was a few years ago. Very many new wells have been ' dug and though much remains to be done in sanitation the ' cleanliness and comfort of all but the largest and most crowded villages have improved Plague does not affect the villager so acutely as the townsman because the former finds little hardship in living out in his fields during the open season, and it may be noted that the richer men are beginning to abandon the crowded village sites and to build comfortable houses in the open among their fruit gardens. The tone of village life is very cheetful, especially in the western part of the District, the markets and festivals are largely attended at all seasons, and bullock-racing, the chief sport of the locality, has never been more 'noonlar'.

PRICES.

History of prices.

155 Mr Craddock sketches the course of prices in past years as follows: ---

'The policy of road-making initiated by Sir R, Temple in 1862 was the first factor in bringing about a rise in the ' prices of agricultural produce, but the quickening of trade. ' which this policy would have brought about, would neces-' satily have been a gradual process had it not been suddenly ' stimulated by the effect of the American War of Secession ' in 1862 The sudden demand for raw cotton to supply the ' Lancashire mills caused the price of that commodity to rise ' by leaps and bounds The acreage placed under the crop ' expanded enormously, and the prices of grain and oilseeds 'at once rose in sympathy. Later on came a reaction, ' but the export trade had received an impetus which was ' never wholly withdrawn. The opening of the iailway to ' Nagpur in 1867; the rise of the cotton industry ten years ' later; the simultaneous opening out of markets in other ' parts of India: the further extensions of the Chhattisgarh ' line in 1882, and of the Bengal Nagous line in 1880, have 'all contributed to an increased demand for the produce ' of the country, and with it to an increased purchasing power of the owners of the land, the price of every kind of ' agricultural product having steadily risen. Now and then

<sup>1</sup> Settlement Report, para. 177.

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there have been fluctuations; a dull foreign trade or plentiful ' harvests have caused a temporary and partial fall; but suc-' ceeding failures or reviving exports have again come into ' play, until rates, which thirty or forty years ago would have been regarded as famine prices, are now looked upon 'as the normal rates which every agriculturist producer 'looks to realise. The history of prices, forming at once the most important factor in the prosperity of the agri-' cultural classes and the main determinator of the ratio of ' ient enhancement, divides itself into two great periods-' that prior to and including the year 1862 and that from ' 1863 onwards ' The Imperial compilations of prices and wages go back as far as 1861, and they give only the retail rates at the chief market towns, being thereby subject to influences of the most local character. Mr. Craddock. therefore, drew up from the account books of large estates and landowning firms a statement of the wholesale prices in rupees per khandi (of 100 lbs of wheat) at which produce was purchased from the cultivator at harvesttime. The statement thus obtained is given below, the rates having been converted into pounds per supee, the percentage by which the pieces of the last period, preceding Mr. Craddock's settlement, exceeded those of the first period, preceding the 30 years' settlement, is shown at the end.

Period.			W heat	Cotton	Linseed	Juär	E	Tür	Rice.	Gram	Likh
			77	27	78	112	28	142	120	66.6	114
***				8	24 4	50	23	45			53
***	••	***		93	32 6	57	276	57			
***		***		9	27 7	477	19	50	38		
***	***		45'7	8.7	28	61.5	19	64	42		80
***	•••		39			5ŏ	195	53	40	61	55
per cer	at. m 1	ates	1	ľ			,,,		٠.		1 "
go over	- thos	e of	1		1						
•••	***	•••	97	200	200	124	95	168	247	62	107
	per cer	per cent, in 1	per cent, in lates			77 27 78 24 78 24 4 25 78 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 29 20 ver those of	77 27 78 112 1 34 7 2 34 7 8 24 4 50 1 34 7 8 3 34 5 8 24 4 50 1 34 7 8 2 2 4 6 50 1 3 2 2 6 50 1 3				

156. The average use in prices of the chief staples of the District, covering more than go per cent of the cropped are i, during the period of the 30 years

settlement thus worked out to 137 per cent. As against this large increase, more than doubling the income of agriculturists, the increase in the rental was only 33 per cent. Another advantage to the agriculturists lay in the fact that the prices of the principal articles, which he requires to purchase, did not rise in the same proportion as that of grain. The imports of European cloth and the establishment of local mills kept down the price of cloth, while the rate of salt though somewhat higher at the period of Mr. Craddock's settlement than formerly, has since also largely declined.

157. The staple food-grain of the District is juar, which was selling at 44lbs to the rupee in Pinces in recent years, 1891. It has never since been so cheap, the average for the decade ending 1900 working out at 35lbs, while during the famine years of 1897 and 1900 the rate rose to 22lbs. In 1906 it was 28lbs. Wheat was 29lbs. in 1801 and ranged between 18lbs, a famine rate, and 33lbs during the decade ending 1900, the average rate being 25lbs During the five years, 1901-05, the rate was 26lbs. Common rice was usually sold at 20 to 23lbs, to the rupee during the filteen years ending 1906, while the best kind of rice now often letches as much as a rupee for 10lbs. Ginned cotton fetched an average rate of 5lbs, to the rupee between 1890 and 1900, and between 5 and 4lbs. during the tollowing five years, rising to 3lbs at one time in 1907. Linseed was 17lbs in 1801 and 16lbs, to the rupee on the average during the decade ending 1900. During the next five years the rate was 14lbs., and in 1907 went as high as 8lbs, to the rupee. The average price of gram has been golbs, to the rupee in the last fifteen years, varying between 25 and 39lbs. and rising to 18lbs in 1807.

PRICES 175

158. During the period 1860-74, before the abolition of the

Prices of miscellaneous

the price of salt varied between 12 and 20lbs. to the rupee Before the

20 years' settlement, Mr Craddock states it had been obtainable at 24lbs The duty of Rs 3 per maund was lowered to Rs. 2-8 in 1878 and to Rs 2 in 1882, was again raised to Rs 2-8 in 1888, reduced to Rs 2 in 1903, to R 1-8 in 1905 and to R. 1 in 1907 The retail rates returned have varied with the duty, the pince ranged from 21 to 24 lbs per rupee between 1878 and 1888, and was steady at about 20lbs between 1888 and 1902 It fell to 214lbs in 1904, to 24lbs in 1905, 30lbs in 1906 and 32lbs in 1907. This is the rate tor Bombay sea salt which is generally used in the Maratha country. Khārāghoda salt, sold in big balls, is more expensive, a rupee fetching only 16 to 20lbs. This is generally preferred by immigrants from Bengal and Northern India The sugar produced in Northern India, known generally as Mirzāpurī, is now most consumed. It is sold wholesale at Rs. 4-8 a maund of 25% lbs and retail at about 6lbs to the rupee Gur or unrefined sugar comes principally from Northern India and is retailed at 10 to 12lbs the rupee. Chi now costs a tupee for 10 to 11 chitlacks retail, and Rs 18 per maund of 24lbs. wholesale In tormer times it sold at Rs. 8 a maund. Ordinary milk is retailed at 16lbs to the rupee and the best pure milk at 10lbs Cotton seed sells at 32lbs, per supee in retail and Rs 18 a khandī of 640lbs in wholesale transactions. Karbī or juar stalks cost from Rs 20 to Rs. 70 per thousand large bundles, the lowest rate prevailing immediately after the harvest and the highest one in the hot weather. Oranges are sold at Rs. 20 to 30 a thousand at the crop season, but in the hot weather they are as dear as Rs. 10 a hundred. Plantains cost Rs. 2 to Rs 3 a hundred. Grass sells at about three supees a thousand bundles, and the price of

<sup>1</sup> One chittack=2 ozs.

fuel has also largely tisen, a cart-load of about 7 cwt costing four tupees, while it is retailed at  $1\frac{1}{2}$  cwt. to the rupee

## Wages 159 Between 1873 and 1901 the wages of a labouret were

returned at Rs 4 to Rs 5 a month Urban and factory wages They rose to Rs 5 in 1893, and were maintained at this rate till 1901 except in the years 1895 and 1896 when they were only Rs 4 There was a further increase to Rs 5-8 in 1902 and Rs 6 in 1903 The last few years have witnessed a most marked increase in the general rates of remuneration, both of skilled and unskilled labour, resulting from various causes. Of these the principal are the development of the mining and cotton factory industries, the construction of new railways, the largely increased amounts spent by Government on public works, such as roads, buildings and irrigation tanks, more especially in Nagnur District, the general increase of prosperity produced by the large profits of the cotton crop, the expansion of cultivation to whatever unoccupied land is still available and more intensive cropping, the substitution of crops demanding laborious cultivation like cotton and juar for wheat and linseed, which require less hired labour, and lastly the partial depletion of the working population by the ravages of plague and famine. In Nagpur it is now difficult to obtain a coolie for the most simple and easy kind of unskilled labour, such as grass-cutting, at Rs 6 a month. A coolie engaged to carry a load has to be paid 6 annas a day and a banghy-bearer asks for 8 annas. Posters on railway stations earn from 12 annas to a rupee a day, and carts charge a rupee a day rising to R 1-8 in the rains. Male factory hands earn 5 or 6 annas a day and women 3 annas A boy of 12 or 14 can make Rs 5 a month. The factory hands have become conscious of their power and of the difficulties to which they can put their employers by re-

fusing to work during the dearth of labour, and have learnt to improve their position by threats of a strike. Their standard of living has risen by leaps and bounds, and this has had a WAGES 17

marked effect on the remuneration of other labourers both urural and urban. Mahārs are commonly employed in the ginning factories, while for the presses, skilled hammāls or porters of the Marāthā caste are imported from the Sholāpur District of Bombay. The wages of skilled artisans as masons, carpenters and blacksmiths were returned as Rs. 15 a month from 1893 to 1901, and in 1903 were reported to be Rs. 18. A fairly good workman can now earn from 12 annas to a rupea a day in Nāgpur, while goldsmiths and the best Punjābi carpenters can earn Rs. 2 a day and the lattet can choose their employees, refusing any work they do not care about.

160. Farm-servants are paid sometimes in cash and sometimes in grain. The cash wages vary from Rs 4 in the lemote parts

of the District to Rs. 6 in the cotton tracts Custom exercises a strong influence on grain wages, and they have not advanced very largely even in the last eighty years This is not unnatural when it is considered that the produce of the land remains more or less constant, while it must also be remembered that the increase in cash rates has hitherto been counterbalanced by the rise in prices, and it is only in very recent years that the labourer's position has really improved. In 1827 Sir R. lenkins recorded that the annual wage was usually 1200lbs of grain with a blanket and a pan of shoes, and as much as 1440lbs was only given in exceptional circumstances The grain wages at piesent are 7 small kuros (of 15lbs.) or 105lbs a month, that is 1260 lbs a year, besides presents at harvest and at the Pola festival, amounting to another 140lbs. The faint-servant also receives Rs 2 in cash, this payment being known as was. This works out to about Rs, 5 a month. In Ramtek the grain wages come to 1320lbs, with Rs. 4 in cash as against Rs 2 a few years ago. The wives of farm-servants usually work for their husband's master, but are not under any special contract to do so as in other Districts. They are allowed a day's gleaning free, in which they pick up about 20 lbs. Private grazies employed by milgozais or large tenants are paid at the same rate as farm-servants To village graziers, who pasture cattle by the month for hire, the fees paid are 4 annas for a cow and 8 annas for a buffalo

161. Agricultural labourers are generally paid in cash for weeding and in grain for har-Amucultural labourers. vesting and sowing During the weeding season the demand for labour becomes most acute. and though the ordinary wages are 4 annas for a man and 2 to 3 annas for a woman they may rise to 5 or even 6 annas when the number of workers is insufficient. In Sir R. lenkins' time a man only earned from 2 to 3 pice a day, and at Mr Craddock's settlement (1894-96) from 2 to 3 annas. Cash wages have therefore nearly doubled in ten years. The watching of the crops is generally done by the tenant or his farm-servants, and labourers are rarely employed. The picking of cotton is paid for by contract at from two to five annas per maund of 16 seers. In the case of juar the man who cuts the stalks gets about 11lbs, of grain a day and the women who cut off and collect the heads, receive about 5lbs At the wheat harvest 7 or 8lbs. of grain are paid as wages, but more work has to be done as the days are longer. At harvest-time a labourer and his family can calculate on earning enough grain to feed them for three months. In the case of juan it is said that on an average a quarter of the crop is paid in wages for weeding and harvesting,

MANURACTURES.

(B. DE.)

By fat the most important of the hand industries of the District is weaving, especially the weaving of sitk-bordered cloth, which has had a long and notable past and may hope for a porsperous future Nägpur cloth is known to have been exported to various parts of India under native rule Just before 1872, the industry suffeed a period of depression,

due to the competition of machine-made goods, but it has recovered in recent years, and it is stated that in 1901, about 00,000 lbs. of raw silk, valued at 5 to 6 lakhs of rupees, were imported into the District. In the Industrial Arts Exhibition, held in connection with the Coronation Darbar at Delhi, beautiful spec.mens of gold and silver brocaring on textile fabrics were sent as exhibits from Nagpur, each piece being valued at over Rs. 150 and some rising as high as Rs. 400 a piece. The majority of the weavers are Koshtis. In 1874 the Koshti population was 31,797 and lose to 4,825 at the census of 1891, an increase of 41 per cent, in 20 years; in 1901 the Koshtis numbered 44,020, representing 6 per cent of the total population of this District. In years of bad harvests. Koshtis are among the first to feel the scarcity and no doubt the famines of 1807 and 1000 affected their numbers. The introduction of mills and factories has little effect on the older weavers, who are not disposed to give up their looms, and would rather submit to esining low wages than seek employment in them, although they have no objection to sending their children to work in factories. In this District cloths with silk borders are manufactured, the varn used being machine-spun. In Nāgpur city and at Dhāpewāra in Nāgpur tahsil, and Khāpa in Rämtek talisil, saris or women's cloths made of dved varn are woven in great numbers. It takes about a week to weave a sari, and the price obtained is from Rs. 8 to q. In Umrer tahsil white dhotis or loin-cloths and dupattus or head-cloths with red silk and sometimes with gold lace borders are woven. The average place of a pail of dhotis is about Rs 14, and that of a pair of dupattas Rs 10. At Binā and Mondā in Rāmtek tahsīl some Koshtis turn out good cotton cloth. Cotton suris worth about Rs. a apiece are woven at Kalmeshwar. The manufactured cloth is exported to Bombay, Poona and various parts of India, besides being sold locally. A Koshti with his wife earns about Rs. 15 per month, and usually follows his hereditary occupation The Garpagarts, whose hereditary profession was to protect crops from hail, have been obliged through lack of custom to give up that calling and now earn their livelihood by making coarse newar cloth used for bedding. They reside chiefly in the large towns and at Bela in Umier tahsi! Some of the Mahars or Mchras, who, forming about 16 per cent of the population, follow various occupations, weave coarse cloth for the poorer classes. Dhangars prepair gonds or coarse cotton carpets. Country blankers worth about Rs. 2 each are woven by Dhangars at Bamni, Watar, Dhapewark, Kalmeshwar and its environs. The local supply of these blankets is however insufficient to cope with the dem and and they are generally imported from Berar, Khandesh, Madras and other places

163. Cotton varn for coloured cloth is dyed by Rangaris. but the dyeing of silk is done by Dycing Patwis (braiders), who also sew silk thread on ornaments. All dyes are imported from Europe, artificial indigo being mixed with a little of the natural product language (carpets) and ragges (quilts) are made by Rangaris at Patansaongi, Saoner, Sawaigson, Narkher and Bhiwanur. Chhipas also follow the occupation of Rangaris and make carpets and quitts. Hemp matting is woven at Kamptee, Nagpur, and at Gauri in Ramtek tahsil by Bhamtas, who also make net bags for holding cotton in the busy season Ropes made of san-hemp (flax) and thick screens (tarats) are also made by Bhamtas at Nagour and Makardhokra The Momins or Muhammadan weavers make handkerchiefs, susi or striped and chicked cloth, and the lugris worn by low-caste women. Momins are as a class very poor and dirty.

164 The gold and silver workers in this District seem to be steadily increasing. There had been an increase of about 25 per cent from 1872 to 1891, and the population of 9734 in 1891 rose to 11,171 at the census of 1901, forming about 13

per cent, of the population Mr. Craddock writes in his Settlement Report '-- 'The proportion of Sonars' shops to a 'village in this District is surprisingly laige. In Born for instance, a town of 3400 inhabitants, with no great trade. ' there are eight Sonars' shops. In Narkher, with its nopula-'tion of 8200 people, there are twenty-five Sonars' shops' This fact affords a good indication of the wealth of a District in which even coolie women may be seen wearing gold Sonärs also find plenty of work and earn on an average about Rs 40 per mensem. No casting work is done. The following are some of the ornaments most in fashion. Gold bangles worn on the wrist are known as path and tore and those worn above the elbow as waks. Karanphul signifies large ornamental ear-Kekat or Kevarā is an ornament with flowers engraved on it worn on the crown of the head. Hairpins have heads representing Nag or the image of Vishnu lying on seven serpents, or mastara, consisting of representations of loses and flowers. Various silver ornaments and nose-rings, earrings and necklaces, set with pearls, are also made by Sonars. The Sonars and Panchals are the two castes working in the precious metals The Panchals are immigrants from Madras and call themselves Vishya Brähmans, but are looked down on by the Sonais who regard them as foreigners. The Panchals are the best workers and do engraving and inlaying, earning as much as Rs. 50 a month. They are very intelligent and are capable of turning their hands to anything

Ornaments of German silvet, bell-metal and zinc are worn by the poorer classes. The Kasārs or biass-smiths make the ordinary domestic utensils, the brass being imported in sheets from Bombay. They earn about Rs 20 a month. Dolls and images of gods and goddesses with special designs were formerly made, but this kind of workmanship is now extinct. Cooking-pots and large vessels for holding water are the only articles made of copper. Imported vessels of German silver and aluminium are used by the richer classes. The irosmith's work is of a rough and

primitive nature In villages only agricultural implements and cart-tyres are made In Nagpur and Kamptee, buckets, pans, chains and corn-measures are manufactured and a few of the best workinen make knives and hogspears to order. The aver-user income of a Lobar is about Rs. 15 a month.

165 The iron industry is declining, but the carpenters are prosperous, and wood carving Other industries of some artistic ment is executed. The Punjabi carpenters are better workmen than the indigenous actisans and their earnings amount to Rs. 2 a day. A doorway specially executed for the Delhi Exhibition was much admired, and the gateway of the Bhonsla Raja's residence in the city and the Rukmini temple contain good specimens of wood-carving. Baskets, chicks, mats, fans and sieves are made from bamboos by the Burads in the large towns Their industry is of some importance in Kalmeshwar, and their average income is Rs. 15 a month. Brushes and mats of data-palm leaves and scale-pans are made by Mangs. There are a number of potters in each of the towns, but the best earthen vessels are produced at Ramtek. Parseons and Koradi, and those of Ramtek are largely purchased by pilgrims coming to the Ambala fair. These consist of small jugs and cups as well as the ordinary earthen vessels. At Kamptee the Kumhars make bruks and tiles of the Allahabad pattern and do a good trade Most of the glass bangles worn are imported, but bangles and rude bottles of glass are made by Muhammadan Kacheras at Ramtek. Lac bangles are made at Kelod, and the Chitaris of Nagour make ivory bangles and dolls and images of Gannati and Mahālakshmi as well as decorating the walls and ceiling of houses and painting devices on cots and stools The Mochis of Nagpur and Kamptee make good boots, shoes and sandals.

There are two spinning and weaving mills in the city

Cotton mills.

Cotton mills.

eighteen piessing and twenty-three
ginning factories. The motive power in all of these is

steam except in the Ahuimurzd cotton factory in Kamptee. which contains a hydraulic press. Most of the factories have been established during the last decade, but the Empress Mills were opened on the 1st January 1877 by the Central India Spinning and Weaving Company under the management of the late Mr. J N. Tata, with a capital of Rs. 15 lakhs. Under the personal supervision of Mr. Tata, the mills soon became a profitable concern, and the present paid-up capital is nearly 47 lakhs. The outturn of yarn has now risen to about 91 million pounds or 112,000 maunds annually, while that of cloth is nearly 5 million pounds or 60,000 maunds. The value of the varn and cloth turned out in 1906 is estimated at Rs 42'45 and 24'01 lakhs respectively The total profits in this year were Rs 20 61 lakhs as against Rs 18 84 lakhs in 1905. The quantity of cotton consumed during the year 1905-06 was 19,343 khandis of 784 lbs each or 180,561 maunds. The mills now contain 75,000 spindles and nearly 1400 looms and employ about 4300 operatives. The counts of thread spun are from 6's to 80's, but the most usual are 12's to 20's. A small quantity of the cloth manufactured is sold locally, but the bulk is exported to Bengal, the United Provinces, and other Districts of the Central Provinces. Occasionally a certain amount of business is carried on with China Cotton is usually purchased from villages in the Districts of the Central Provinces where there are ginning and pressing factories, only a small fraction of the cotton consumed being imported from America and Egypt. The Company supports large Workmen's Provident and Pension Funds amounting at present to Rs. 178 lakhs and Rs. 53,000 respectively, and this action is so unusual in India as to deserve special mention. It also partially insures its own property. The mill premises are fitted with electric fittings and with automatic fire protectors, and the mechanism is of the newest pattern, some of it being driven by dynamos. The only point of commercial interest is that in bleaching operations no lime

is used. Common salt solutions are submitted to electrolysis. and the solution of sodium hypochlorite produced is used for bleaching purroses. The concern is a very profitable and tniving one The other mills, known as the Central Provinces Swadoshi Mills, were established in 1802, with a nominal capital of 15 lakhs. They contain 16,500 ting spindles and 180 looms. The outturn of varn in 1905-06 was 21 million pounds, valued at Rs. 10'46 lakhs and that of cloth was 600,000 lbs. valued at Rs 3'97 lakhs. The paidup capital is Rs. 14 lakhs. The mills are working at a loss and have recently been sold to the Bombay Parsi firm of Petit. The average number of operatives employed daily is about 900. In cleaning cotton about 10 per cent, of its weight is lost, but in the sizing process the gain in weight amounts to 10 to 15 per cent, so that the weight of thread and cloth is nearly equivalent to that of the raw cotton.

167 Some of the ginning and pressing factories are owned by Pārsī and English Companies, some by Baniās and others

by Marwaris Twenty of the fac-

toues are located in the city of Nagpui, five at Kamptee, six at Saoner, seven at Katol town, one at Kelod and one at Kandhali in Katol tahsil. Only two of the ginning factories contain double rollet gins, the rest containing single rollers. Five factories contain more than 50 gins, three between 40 and 50, and ten below 40. Statistics for five are not available. The collective capital of all the ginning and pressing factories is 25 lakbs. The ratio of ginned to seed cotton is 35 per cent. for just and 28 per cent. for pust and 28 p

day. The total average number of operatives working in the factories was 2787 in 1906 as against 3303 in the year preceding. The wages of unskilled labour are 4 annas to 5 annas for a mana and 3 annas for a woman. The total capital invested in the mills and factories is about 87 lakbs.

r68 Grain is measured in this
Weights and measures District by pails according to the
following scale:—

I ser = 25 tolās I adhelī = 2 sers = 50 tolās,  $\frac{1}{2} \frac{\partial u}{\partial x} = \frac{1}{2} \frac{\partial u}{$ 

1 paulī = 2 adhelīs = 100 tolās or 11 Government seeis.

1 kuro = 8 paulis or 10 seets 1 khandi = 20 kuros or 5 maunds

The ser of a5 tolds is equivalent to a double handful of grain, which is known as onjal. Half a ser is a single handful, called phisa. The phail is the measure commonly used and kure measures are seldom seen. The unit of weight for cotton seed and uncleaned cotton is the khandi of 658 lbs. For cleaned cotton the unit is the biphla or bundle of 458 lbs. A commercial bale of cotton is 3½ cwts. or 392 lbs, but is commonly taken as 400 lbs. The counts of thread are calculated as follows. A hank of 849 oyards of No. 1 thread weights one pound awardupous, and two hanks of No. 2, three hanks of No. 3, twenty hanks of No 20, and so on, each weigh a pound. Thus twenty yards of No. 20 weigh as much as one yard of No. 1. Different sets of weights are used for most of the articles of daily consumption, thereby facilitating fraudulent oractices

Thus for sugar — I paser! = 127½ tolās.

I maund = 8 paser!t.

I hānnā! = 10 maunds.

For gh!—

I paser!= 1½ seets = 120 tolās.

I maund = 12 seers = 8 paser!s.

I hānai! = 20 maunds

```
For gu --

1 pavei = 130 tolia.

1 maund = 8 paseris = 13 seets.

1 khandi = 20 maunds

For salt—

1 pateri = 150 tolia = 1½ seets

1 maund = 8 paseris = 15 seets

A sack contains 6 kachchā maunds or 90 seets

For spites—

1 pateri = 106} tolia

1 maund = 8 paseris
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Sago, raisins, potatoes and other articles are sold by the Government seer and maund.

In Nagpur city the unit of weight for gold is a Katki tolä of 12 måshas. It is different from a rupee, which weighs only 11 måshas. The descending scale is ---

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I marka = 4 walts.

I wall = 2 gunys (the seed of Abrus precatorius,)

I gunya = 2 guhus (wheat seeds)

I gahu = 2 jonahrās (juār seeds).

I yondhrā = 2 kindurs (tice seeds).
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But outside the city of Nagpur gold is weighed with rupees and eight, four and two-anna pieces. For silver, copper and brass, Government weights and rupees are invariably used. For oil a pail measure equivalent to 1½ sees or 140 tolas weight is used. A plough or någar of two bullocks is 15 to 20 acres of land, varying according to the nature of the soil. The seed area of a khandi of wheat is from 8 to 10 acres and that of a dhard [8] lbs.) of cotton is about an acre of land Seed can be sown in about 3 acres of land in one day with a tifan or veed-drill and four bullocks, while with a two-bullock drill more than an acre cannot be covered. In cotton fields, a disura is used for weeding operations, and the weeding of 4 acres of land can be done in one day. Twenty head of cattle make one khandi and a ker is equivalent to two miles.



VIEW OF ITWARA BAZAR NAGPUR

160 In the Maratha Districts the Saka era and calendar are used. This era commenced in The Sala calendar 78 A D and is believed to have been founded by a Scythian King, Salivahan, of the Yuehchi tube, who reigned in Kathiawai. The year 1905 was 1826-27 of the Saka eta The Saka calendat differs from the Vikrama calendar in common use in the Central Provinces, in the fact that each month begins a fortnight later. Thus Chaitra, the first day of which month begins the new year, corresponds to the second half of the Vikrama Chait and the first half of Basakh. The Saka months begin with the new moon and the Vikrama months with the full moon ist of Chaitra may fall as early as the middle of March, but more commonly comes in the last week of March or the first week of April. Consequently Chaitra may be taken roughly as corresponding to April. The names of the Saka months, are practically the same as those of the Vikrama months but they retain the correct Sanskrit form, whereas the Vikrama names are Hindi corruptions. But the Viktama month Kunwar is called Ashvin in the Saka calendar and the month Aghan is called Maigashir. Both eras are lum-solar and the year consists of about 355 days, but is made to correspond very nearly with the Gregorian year by the interposition of triennial intercalary months

170. A number of weekly markets are held in various Markets In the city of Nagpur, there are seven weekly markets, named after and held on each week day. The Itwari bazar is the largest attended by 10,000 persons, and the next in importance is the Budhwan. The articles sold are the daily requisites of life. The other principal weekly markets of Nagpur tabsil rare those of Kamptee, Saoner, Kalmeshwar and Bori, of Ramtek tabsil, Ramtek, Khāpa, Kodāmendhi, Gauri, Hiurā and Parseonij of Kātol tabsil, Kātol, Sāwargaon, Narkher, Iallalkhera, Kondhāli

Bela and Susi The principal cattle-markets are held at Kamptee, Mohpā, Kodāmendhī, Sonegaon and Umrer. In municipal towns cattle are registered at the ontion of the haver on payment of one pice per tupee. Cotton markets are held in Nagpui city, opposite the railway station, and in Kamptee, Saoner and Kātol. A tax is levied on sales of cotton at the rate of one anna per cart-load and the income obtained is about Rs. 6000 in Nagpui, Rs. 1500 in Katol and Rs 1000 in Saoner, which would indicate sales aggregating Rs 1'40 crores in the three markets. Market dues varying with the price of the goods exposed for sale are also collected in Saoner, Kalmeshwar, Katol and Ramtek, Brokers (dalāls) are engaged for the purchase of cotton and grain, For a cart load, containing 13 khandis (12 maunds) of cotton, 4 annas are paid as brokerage, but for the purchase of 100 rupees worth of grain brokers charge one rupee levied are credited to municipal funds in towns, and the dalals have to pay tees of Rs. 6 to 12 annually for licenses. In villages no license is required and kotwars can be seen practising as dalāls Kamptee market is famous for its fruit. especially oranges, plums and guavas and potatoes and other Plantains are bought by the Kuniras of vegetables, Nagpur, Kamptee and other towns from the market at Kodāmendhī Mangoes are usually brought to Nagpur from the Saoner tract. 171 Altogether ten annual fairs are held in the District. Fairs.

but with the exception of the Ambala or Ramtek fair they are only small religious gatherings, attended by the residents of the surrounding tract. At Dhapewaia in Nagpur tabsil two annual fairs are held on the 11th day of Asarh Sudi and Kärtik Sudi (July and November) respectively. These are fairs of the Koshtis, who assemble to worship their god Pandharināth. On Māgh Sudi 5 (February), the Koshtis also come to Dhanewara to worship their saint Kolhaboa. A TRADE. 189

small fair is held at Kātol in Chaitra in honour of the goddess Saraswati In Umrer tahsil two fairs are held at Ambhora on the Waingangain the months of Jyeshth (June) and Magh. A fair is also held at Bela in the month of Ashan (December) to which large numbers of rengis or country carts are brought for sale. The most important fair of the District is that of Ambala or Ramtek It takes place about the first week in November and lasts for ten days. Pilgrims from various parts of the Central Provinces and Berar come to the fair, and detailed arrangements are made for their accommodation. Several hundred temporary shops are opened and articles of various kinds are sold. The estimate of the gathering in an average year is 150,000 persons In 1904 when plague broke out in Kamptee and efforts were made to dissuade pilgrims from attending the fail, the atten, ance was 89,000 persons, the lowest on record for several years, but in 1905, the gathering was extraordinarily large, amounting to 257,000 persons, while 43,000 carts, 86,000 bullocks and 14,000 horses are said to have been brought to the fair. A small tax is levied on articles exposed for sale, and about 500 rupees, just sufficient to meet the expenditure incurred, are collected by this means principal articles sold are strings of beads of lac and rudrakshas or wooden sacred beads and brass and copper pots from Nagpur and Bhandara The sales are estimated at a lakh of rupees and the temples get about Rs. 2000 An agricultural exhibition is also held at this fair. There are no cattle fairs.

#### TRADE.

172. In the time of the Marāthās, grain, oiseeds and country cloth formed the chief articles of export. In exchange for these commodities the District received European piece and miscellaneous goods; salt from the Konkan; silk, sugar and spices from Bundelkhand, Mirzāpur and the north, roce from Chhattisgarh; and hardware from Bhandāra and

the Nerbudda Districts Except in times of depression produced by the foreign struggles or internal commotions of the State, the general tendency of trade under the Marathas was to increase, but there were three prominent causes at work to prevent the rapid development of commerce. The first was the difficult nature of the country and the wretched means of communication, impeding equally import and export. The second was the feeling of insecurity from the greed of the rulers of the State or their Forced loans were frequently taken from wealthy merchants and bankers without any prefext whatever except that the State wanted money, with the full understanding on both sides that the amount was to be wholly or partially left unnaid; and the late Nagous rulers indulged in this species of plunder to a greater degree than almost any other native government. The result of the system was to make the merchant hoard his surplus wealth and secrete it in the form of bullion and jewels, instead of embarking it in profitable but visible mercantile investments The third was the existence of certain regulations trammelling the free export of grain and the establishment of vicious systems of private monopolies and transit dues.

173. Up to and for some time after the construction of the Nagpur was not a trading centre of any importance; the cotton of the Nagpur tahsil mostly went to the great entrepôt of Hinganghāt, and that of the Katol tahsil to Amraoti. At the time of the 30 years' settlement (1866-67) the District was in a very prosperous condition owing to the high prices of cotton produced by the American War, Mi. M. Low, the Deputy Commissioner, estimated the value of gold bullion impotted in that year at Rs. 40 lakhs and of silver at Rs to lakhs. But conditions were abnormal and the successful agriculturist had little idea of investing his savings in anything but ornaments. The policy of roadmaking initiated by Sir R. Temple in 1862, the opening of

TRADE, IQI

the railway to Nāgpur in 1867, the rise of the cotton industry ten years later, the simultaneous opening out of mirkets in other parts of India, the further extensions of the Chhattisgath line in 1882, and of the Bengal-Nāgpur railway in 1889 have all contributed to the enormous micrease in tade which has been a feature of the last forty years. Up till 1882 the exports from Nāgpui station included the whole of the produce brought by cart from Bhandara, Balaghāt and Chhattisgarh. The following statement shows the increase of trade in the staple exports, the first two lines including the produce brought by cart from Chhattisgarh.

	Perio	d		Grain & oilsceds Maunds	R iw Cottor Maunds
1870		•••		 299,000	3,000
1871-75	(avera	ge)	•••	619,000	1,000
1885-89	(avera	ge)	•••	967,000	13,000
1890				839,000	13,000
1902-06	(avera	ge)	•••	 837,000	606,000

The principal feature in the celurns is the enormous increase in the export of raw cotton, irrespective of the facts that a considerable part of the cotton produced in the District goes to Amraoti and Wardhā by road and that in the last twenty years a large indigenous demand has arisen from the Nagpur mills

174. The statements on the next pages show the exports and imports from stations of the Nagpur District for the years 1902-06, with values calculated according

to the rates given in the Provincial trade returns. They do not by any means accurately represent the trade of the District. During the period to which they refer, a large proportion of the produce of Seoni and Chhindwara was brought by road to Kamptee and Nägpui, including practi-

Except the last line, this statement is reproduced from Mi. Craddock's Settlement Report, page 104.

orfs. Frances rebresent thousands.

Articles											
		1,02		ě.	19c3	tofi	7	\$5.43	ď	1,506	92
Name and Address of the Owner, when the Owner, which		Quantity	Value	Qurintity	Value	Quantity	V-due	Quantify	Value	Qurotus	Veluc
	-	Mds	Rs	Mds	Rs	Mds	Rs.	Mds	Rs	Mds.	Rs
Raw cotton	•	494	8,105	547	5,497	610	13,272	825	14,338	583	11,041
Cotton manufactures ***	:	202	7,589	192	7,279	(87	909'9	195	7,241	173	6,465
Wheat	٠	336	950	435	1,141	265	246	275	Sog	7	3-1
Other grains and pulses	:	118	282	19	157	\$	60	†61	485	136	+55
Hides and skins	į	61	323	82	375	21	209	60	811	97	292
Hemp and jute	i	12	215	62	207	33	192	37	396	4	231
Metals	ŧ	2,503	613	2,717	509	1,887	526	3,333	630	4,472	733
Oil-seeds	:	7	1,499	oţ	963	163	848	929	1,169	340	674.]
pooM	ŧ	72	168	79	7	73	170	69	158	89	151
Other articles (value known)	,	130	1,504	256	1,515	268	1,Sr4	301	1,680	283	1,765
All other articles (value not known)	-		:			9 <u>r</u>	÷	139	:	183	:
Total	1	4,315	21,248	4,724	727,12	3,867	24,989	1	6,024 27,617	6,329	22,434

Imports-Figures represent thousands

		61	-061	9.61		10.		ō.	5061	9-61	9	
Artules		Quantity	Value	Quantity	Value	Quantity	1 alue	Quantity	Value	Gurmais	\ da.	
		Mds	Rs	Mds	2g	Mds	Rs	Mds	ŝ	Mds	rz.	
Coal and coke	:		277	1,132	283	8				1,313	328	
otton manufactures	:	88,	3,240	63	3,473	63				<del>†</del> 9	3,671	
Jean and pulse		1,053	3, 239	978	2,779	1,003	3,257	92	3,321	1,122	3,061	
		34.5	1,490	101	1,045	113				113	1,381	
ᇴ	:	. i	17	103	8	911				100	463	
occanuts	•	22	187	39	305	#			343	12	205	
alt	•	8	697	171	200	8			68	200	914	
:	:		3.	192	1,477	22			2,003	ż:	9	
Opacco	; :	12	12	210	12	22		5 7	1 12	5 2	500	
odder	7	2	77	6	12	18			2	0	91	
pood		66	215	121	355	151	305	138	283	7	201	
ther articles (value known)		261	6,675	571	7.537	219	8,73		9,589	822	11,519	
ili other articles (value unknown)			:	:			:	10		ro.	i	
I	Total .	3,599	19,072	3,550	19,059	3,498	22,196	3,818	23,228	4,140	24.531	.,

cally all the cotton grown in the Sausar tahsil. On the other hand, as already stated, the Katol tabsil sends a good deal of its cotton outside the District Grain and oilseeds are still brought from Bhandaia in carts along the Great Eastern Road, and timber both from the Bhandara and Chinda forests During the last five years the exports of the District have averaged about 5 milhon maunds, of the value of Rs. 236 lakhs, and the imports 34 million maunds of the value of Rs 216 lakhs The exports of raw cotton are now more than 600,000 maunds as against only 13,000 in 1800. Those of wheat and oilseeds have declined from 830,000 to 726,000 maunds, the imports of cotton goods are 62,000 maunds as against 40,000 in 1800 and those of salt 174,000 maunds as against 160,000. The trade in metals is a new development arising from the manganese industry During the last five years the exports of metals have averaged nearly three million maunds or three-fifths of the total bulk of exports.

175. The exports of raw cotton during the last five years have averaged 600,000 maunds or Cotton 120,000 bales of 400 lbs, their value being Rs 113 lakhs or 33 annas per pound. This is roughly equivalent to the clop on 450,000 acres. It is sufficient to produce 190 million yaids of cloth of the width of 35 inches. As already seen nearly the whole of this trade has developed since 1800. The exports of Indian varn have been about 120,000 maunds of the value of Rs. 36 lakhs or at the rate of 6 annas per pound, and of piece-goods 70,000 maunds, value Rs. 34 lakhs, or 92 annas per pound. Both these staples have shown a tendency to decline in the last few years. Raw cotton is sent mainly to Europe and is largely sold to the Continental mills. Yarn is sold in the Central Provinces and Bengal, while the cotton cloth of the Empress mills is sent all over India and in small quantities to China, Japan and Burmu; the Swadeshi mills find their best market in Chhattisgarh. Thread of counts FRADE, 195

of 12's to 20's and cloth of 20's to 30's is most exported Silk-bordered hand-woven cloths are sent from Nagpur and Umrer to other Districts of the Province and to Bombay, Berar and Hydei Abad, the chief buyers being Maratha Brahmans. It is estimated that the annual production of these cloths may be worth about five lakhs!

176 Oilseeds are the second staple in importance and the annual exports are about Oilsecds 450,000 maunds of the value of 10 lakhs. Of this total about 260,000 maunds of the value of 31 lakhs or R 1-6 a maund were of cotton-seed The oilseed is used as a todder for cattle and for train oil. An excellent edible oil can be manufactured from it and used as a substitute for shi or clarified butter, and in Europe for olive oil. The refuse is a valuable manure in America but is not so used in India. Cotton oil is employed locally for factory-engines and is applied to the hair; and the oil-cake is fed to cattle The exports of linseed are about 86,000 maunds at Rs. 4-8 a maund, and those of til seed are 31,000 maunds at Rs 4-7 a maund Mahuā oil is now also exported. the oil being used for mixing with ghi and for lighting.

177. The exports of wheat are 271,000 maunds valued at more than 71 lakhs or about Rs. 3 Other exports per maund. But taking all grains together, the imports now largely exceed the exports, and even in the case of wheat the net exports are very small, The exports of manganese have averaged 106,000 tons for the last five years, the maximum figure being reached in 1906 with 164,000 tons. The average value is shown as Rs 3.61 lakhs or about Rs. 3-8 a ton, but the selling price on the railway has risen to Rs. 20 a ton and Rs. 15 would perhaps be a fair average, though the price fell largely in 1907. At this rate the average exports would be worth 16 lakhs. Hides and skins are exported to the value of nearly 6 lakhs a year, the Kamptee hide-market being the principal centre of trade. The average selling price is about Rs. 31

tor cattle-hides per maund and Rs. 27 for buffaloes, and 10 of the former and 6 to 7 of the latter go to a maund

Of fiesh fiuits oranges are an important product and are sent to Bombay, Hyderābād and other parts of India Veiy iew go to Europe, eithei because no effort has been made to develop the trade, or perhaps, because the Nāgpur orange is too soft and juicy to stand a long voyage Small plane (Zizpyhiu, njuhā) are sent to Bombay, and the beteleaves of the Rāmtek tahsil are exported to Northern India

178. The imports of cotton manufactures for the last five years have averaged about 35 lakhs, Staple imports or Rs 4-11 per head of population Of these more than three-fourths are English varn and piece-goods The finer kinds of English cloth come from Calcutta as they are commonly worn in Bengal and the coase ones from Bombay. Shirting cloth at 4 annas a yard and fine longcloth of counts of 150 to 200 are imported in large quantities. Ordinary woollen goods come from England and shawls from Kashmir. The imports of metals are 117.000 maunds of the value of Rs. 124 lakhs. They consist mainly of brass and copper in sheets and of iron goods Enamel ware is also imported in considerable quantities, while aluminium is now coming into use among natives for cooking-pots and German silver for plates and dishes

The imports of salt are 174,000 maunds, value Rs. 5\frac{1}{2} lakhs, Bombay sea-salt being generall; sold, while a httle is brought from the salt-hills of the Punjab. The consumption of salt per head of population is from 17 to 19 lbs., as against the Provincial average of 13 lbs. in 1903, and that of sugar is more than 20 lbs. The imports of sugar are worth nearly 18 lakhs annually, of which about half is gur or unrefined sugar. Sugar is brought from the Mauritius and Germany and from Northern India, and Mauritius sugar is sometimes mixed with the junce of sugarcash and sold as the Indian article. Gur comes from Northern India and from

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Barst and Sholapur. The imports of kerosine oil average nearly 5 lakhs a year Burma oil is the cheapest and is used by the lower classes, but it gives off much smoke, and the American product is more popular.

- 179 The total imports of grain and pulse are about a million maunds, as against exports of less than half a million, and their value is about 32½ lakhs More than half the total bulk is tree, which comes from Bhandara, Raipui and Bengal Wheat is brought from Chhindwara and Seoni, and even juar, the staple food-crop of the District, is now imported In 1090 it was brought from Cawapore
- 180. Cocoanuts are brought from Bombay, the imports being 20,000 maunds, value Rs. 3 Minor imports lakhs annually. The cocoanut is the most common religious offering and is said to have originally had the idea of substitution for a human victim. Areca nuts come from Ratnagiri in Bombay and from Orissa, cardamoms from Malabar, cloves from Zanzbar, black pepper from Zanzibar and Malabar, and chillies and red pepper from Sholapur, Calcutta and Delhr. The imports of tobacco are about 20,000 maunds annually, of the value of about 21 lakhs. Trichinopoly cheroots and cheap American cigarettes are much smoked Biris or native leaf-cigarettes are brought from Tuora in Bhandara. All dves come from Germany. Cheap umbrellas and watches are made in Japan, and glass-ware is brought from Austria, Germany and Japan. Japanese and Swedish matches are generally used. Boots and shoes made in the English fashion are brought from Bombay and Cawnpore, and are now also made locally
- 181. The exports have averaged about Rs 31 per head of population for the last five years, as against Rs 38 in Wardha. The proper valuation of manganese would however increase the Nägpur figure. The imports are nearly Rs. 29 per head o

population The excess of exports over imports was Rs. 44 lakhs in 1905, but in 1906 the imports were the larger by Re. 44 lakhs.

182. Practically all the expotts of the District are sent from Nagpur and Kamptee, except the manganess of which the larger part goes from Thārsa Expotts from Nagpur were 1½ million maunds in 1902 and 2½ millions in 1905. Kamptee sent away about 2 million maunds in 1905, but the bulk of this was probably manganese. More than four-fifths of the impotts come to Nagpur and nearly all the remainder to Kamptee

# COMMUNICATIONS

# (CAPTAIN OLDHAM, R E.)

183. Någput is the terminus of two lines of rail, the
Railways Peninsula line coming from
Bombay, and the Bengal-Någpur Railway from Calcutta.

The Great Indian Peninsula line was completed in the year 1867, and connects Nagpur through Bhusawal with Bombay. Its length in Nagpur District is 27 miles with the stations of Borkheri, Bori, Khānri and Nāzpur.

The present Bengal-Nāgpur Railway was originally constructed on the metre-gauge in the year 1881 as the Chhattisgarh State Railway. In 1888 the line was converted, under the auspices of the Bengal-Năgpui Company, to the broad-gauge and carried through to Calcutta. Its length in Nāgpur District is 34 miles, and it has statuons at Nāgpur, Mehdibāg, Kamptee, Salwa, Thārsa and Khāt.

At present these lines have a joint station at Nagpui, which is neither commodious nor conveniently located. A scheme is under consideration for the construction of a large and spacious Station more in accordance with the requirements of a populous city and an important railway centre.





184. A light railway 2'-6" gauge is under construction
New lines under construction and proposed.
Bengal-Nägpur Railway
The section in this District from Nägpur to

Bhiwapur has just been completed (December 1907) The length of this line is 50 miles, and there will be stations at Itwāri, Pārdi, Dighoti, Titur, Kuhi, Bamhni, Umrer, Nawegaon and Bhiwāpui

A broad-gauge line is under construction from Nagpur to Ramtek Near Mansar the line bifurcates, one branch leading to Ramtek on the east, while the other, trending to the west, follows a difficult line among the Mansar hills to gain access to the extensive manganese mines in this neighbourhood. This line will, it is understood, be extended to the new manganese mines to the west of Chorbaoli, some six miles to the north. The eastern portion of the District is thus served fairly well by the lines already mentioned as open or under construction. The west and north-west is however entirely devoid of railway communication; although this tract comprises more than half the total area of the District. The reason for this is certainly not from want of proposals and projects; but rather perhaps owing to their multiplicity. At last however a decision has been arrived at on the conflicting proposals, and two lines are, it is understood, to be constructed at an early date The most important of these is the Nagpur-liarsi line to be made on the broad-gauge by the Great Indian Peninsula Railway The alignment will be from Nagour by Kalmeshwar, Katol and Narkher to Pandhurna in Chhindwara District, and so by Betül to Itarsi. This line will be of very great importance to Nagpur, and among other advantages will open up the rich cotton tracts round Kātol. A branch line to Amraou, taking off from Narkher through Warud in Berar is a project that, though not yet sanctioned, seems likely to be carried out in the future.

A nariow 2-60 gauge from Nagpur to Chhindwaia is also sanctioned. The proposed alignment is from Nagpur war Patansvongs, Saoner, and Kelod in Nagpur District to Chhindwaia 200 Ramakona. The line will give an outlet to the numerous mangamese mines in this tract, and will also directly connect the Chhindwaia coal-fields with Nagpur.

185 A private steam tramway has been constructed by the Central India Mining Company to carry the ore from the mines near Ramtek to the Bengal-Nagpui Raifway line at Tharsa station. This line is a private concern, and is intended for the carriage of minerals only. It is on the a feet gauge and scenar praction is employed.

steam traction is employed. Its length is about 14 miles. 186. There are five main metalled roads in the District. radiating from Nagpur like the Roads spokes of a wheel The Great Northern Road which leads to Jubbulpore through Kamptee and Seoni is the finest road in the Province. It is the only one in fact which is bridged throughout its length (with the exception of the Nerbudda river) The section in Nagpur leads through Kamptee and Mansar for a length of 46% miles to the borders of Seoni District. There is a magnificent bridge over the Kanhan river near Kamplee, perhaps the finest masonry bridge in India It consists of 12 spans of 80 feet elliptical arches The work was completed at a cost of Rs. 121 lakhs in the year 1873, the Engineers in charge being Mr F. L. O'Callaghan and Mr. G W MacGeorge When this bridge was made it was intended to carry the metre-gauge railway line to Chhattisgarh over it, alongside the road, but subsequently a second railway bridge was constructed. The traffic borne by this highway is very heavy, timber and other forest produce

The construction of the Ramtek railway has now diverted most of the manganese traffic, but up to the end of the present year (1907) the whole output of the manganese

being the principal items

mmes found its way to the railway at Kamptee by this road, The resulting traffic was more than any surface could stand, and very severe damage has been caused to it. This has necessitated a large outlay in special repairs which are now in progress. A bianch road takes off from the Great Northein Road at Kamptee and leads to Dahegiano on the Nägpur-Chhindwara road at a distance of 10 miles. The Koilár rive i is clossed by a causeway in the dry season and by a boat terry in the rains. Another bianch road takes off at Mansar in the 25th mile, leading for about 5 miles to the important fiindu religious centre and tahsil town of Ramtek.

187. The North-Western road forms the first part of two main highways, the Nagpur-Itarsi North-Western Road. 10ad, and the Nagpui-Chhindwara road, which bifuicate at Saoner in the 23rd mile from Nagour. As far as Saoner the road is metalled and provided with culverts and causeways. Beyond Saoner the Itarsi road (locally called the Saoner-Multai road) is now being metalled and provided with causeways as far as the border. The section beyond Saoner on the Chhindwara road is metalled, but causeways and culverts have to be provided. Sixteen miles from Nagpur a branch road takes off from Patansaongi to Khapa at a distance of Seven miles Both the main and Khapa bianch roads have suffered severely from the very heavy manganese traffic. The construction of the Chhindwara narrow-gauge line by Patansaongi and Saoner will relieve the road of this excessive wear and tear.

188 The road to Chanda leads through Umret and Bhwāpur As far as Umrer in the bridged throughout with the exception of two rivers in the 8th and 27th miles respectively, where the crossings are provided with raised causeways. The Katol road leads from Nāgpur through Kalmeshwar to its present terminus at Katol. Beyond Kalmeshwar it is unbrīdged, and traffic in the rains suffers much inconvenience. But causeways are

now being provided The Great Eastern Road leads through Bhandara and Chhattisgath to Sambalpur in Orissa.

The road is metalled and bridged throughout the section in Nagoui District except for the Kanhan river in the 21st mile. This river is crossed by a temporary bridge in the div season and by a ferry in the rains. Near Pardi in the 5th mile, the road is joined by a branch from the Bagadganj,

a suburb of Nagpus city A first-class road metalled and budged throughout is under construction from Nagour to

Hingna, a length of 7 miles This is in continuation of the Nägpur-Ambaiheri road ali eady constructed

It will be seen that among the existing roads there

is none leading south or south-west, Proposed roads and the result is that there is no good road communication with the adjacent District of

Wardha nor with the Berars. This is an obvious want. and two roads are contemplated. One is to reconstruct the old road to the south through Bori which has been allowed to sink into complete disrepau The other is for the con-

struction of a first-class road metalled and bridged throughout from Nagpur to Amraoti the capital of Berar. The line to be followed will be the old trade route through Bazargaon, Kondhālı and Bishnüi In addition to these two roads a scheme for no less than 27 other roads aggregating about

320 miles has been prepared. The necessary surveys have been made and estimates drawn up. The work will be gradually carried out from Provincial and District Funds. and in the event of famine a large programme of useful work is immediately available for labourers

### CHAPTER VI.

### FORESTS AND MINERALS

### FORESTS

100

The Government forests cover an area of 516 square

miles or 13 per cent of that of the

Government forests District They comprise two main tracts, the first is situated on the foot hills of the Satpuras on both sides of the Pench river, in Ramtek tahsil, and is divided into the east and west Pench ranges with a total area of 343 square miles. While the second consists of a series of scattered blocks extending from the west of Katol to the south and east of Umrer, and covers 173 square miles, being divided into the Umrer and Kondhāli ranges rock-formation of the Pench valley forests is almost entirely granite, and that of the two smaller ranges, trap teak is scattered through the Pench valley forests, mixed with bamboos in the north along the hills of the west Pench range. The Kondhalı forests contain small but good teak in the central blocks from Katol to the railway, but poor mixed coppies to the north, while in Umrer many of the blocks produce little but grass, brushwood and a scrubby growth of paläs (Butea frondosa) Sai (Terminalia tomentosa) is common in all forests, and the other most important trees are tinsā (Ougeinia dalbergioides), tendū (Diospyros melanoxylon), lendia (Lagerstræmia parviflora), and dhaurā (Anogeissus latifolia), mixed with the inferior species prevailing in mixed forests. The isolated coppies of the Umrer and Kondhāli ranges have been much cut over and now contain little or no timber of any size. The Pench forests contain some areas which have been completely conserved for many years, but these are still so inaccessible that Government is easily, undersold by the owners of private forests. Working-plans have now been applied to the whole area with the exception of some scattered stretches

of grazing land, and the ranges are divided into 30 coupes, one of which is cut over annually. For many years the coupes will jield little but fuel and ill-grown timber, but their plesent annual capacities, if fully worked up to, are estimated as representing a money value of about half a lash of upees or at the rate of Rs. 1000 a square mile (or 1½ nana per acre). There are also fodder reserves with a total area of about 24,000 acres, which in normal years are let on lease. All forest produce is disposed of by license or contact.

191. The following statement shows the revenue under the principal heads in different years.—

Vear				Timber	Fuel	Grazing &
				Rs	R×	R4
1890-91				5,000	5,000	23,000
1902-03			**	9,000	19,000	22,000
1904-05				10,000	17,000	28,000
1905-06	 	٠.		12,000	18,000	31,000
1906-07	 ***	***		24,000	17,000	38,000

The demand for timber and fuel is now very active owing to the increased number of factories and mills. It is probable that about 150,000 cattle now enter the forests annually for grazing purposes. The following statement shows the revenue and expenditure of the Forest Department in different version.

Year		Resenue Rs	Expenditure Rs	Surplus Rs
1890-91		43,000	23,000	20,000
1902-03	***	58,000	35,000	,23,000
1904-05	•••	66,000	38,000	28,000
1905 06	***	. 74,000	27,000	47,000
1906-07.,	••	92,000	38,000	54,000

Special measures for protection from fire were extended to about 260 square miles in 1906-07 at a cost of nearly Rs. 3000 or Rs. 11 per square mile. In this year the forest staff comprised a Deputy Conservator, three Rongers, three Deputy Rangers, 7 Foresters and 100 Forest Guards.

192. In addition to the Government reserves the District has 418 square miles of private Puvate forests forests, including 182 miles of tree forest and 236 of scrub jungle and grass. The total woodland area is thus 934 square miles or 24 per cent of that of the District, a larger proportion than one would have been inclined to suppose The central and southern portions of Umrer and a part of Nagput are very bare of trees, but the remainder of the District and especially Katol is well wooded. There are some good private teak forests on the Kauras plateau at Suardarā in north Bhiugarh and in the border tracts of the Belä and Girai parganas, and some fair mixed forest on the northern hills of Ramtek and in a tew localities near Katol The other private forests are situated on the not thern hills of Katol, the ranges near Parseoni and Mansar, the Makardhokrā ridge lands in Umrer and the country just west of Nagour In these tracts the growth of timber is very poor, but there are some fine grass reserves which are a source of great profit to their proprietors. Fuel is also abundant and now commands a very good price, A certain proportion of the forest land is culturable and since Mr Craddock's settlement its area has decreased by 71 square miles. At settlement the income from private forests was estimated at Rs. 31,000 or an anna and a half per acre 193. Of a length of 252 miles on 19 roads in charge of the

Roadside avenues have established avenues and 53 miles run through forest where they are not iequired A length of 131 miles is thus provided for. Of the remainder 75 miles have partial or incomplete avenues and 46 miles are without them. The principal established avenues are for 23 miles on the Great Northern Road, 16 miles to the Great Northern Road, 16 miles are without them.

spent on nuiscries and maintenance and on filling up gaps in existing avenues, so that practically no fresh plantation is possible. In order to keep up a steady supply of plants, a total of fitteen nurseries are maintained on a modest scale at convenient centies A scheme for the completion of the avenue along the whole length of the Great Northern Road has now been projected. The District has seven military camping-grounds at Mahalgaon, Mahoda, Indora, Mansai, Deolapar, Koradı and Pipri These are being provided with groves, and more than 1500 saplings were put in during 1907 The District Council have charge of eight roads with a total length of 164 miles Of these, 31 miles have incomplete avenues and 12 miles do not require planting The existing avenues are on the southern road through Takalghāt, the Nagpur-Kamptee road through Karamnā, and the Dumus-Verkhera and Bori-Umrer roads. Council spend about Rs. 1800 annually on maintaining and completing the avenues on these roads, and maintaining nurseries at suitable centres It has also undertaken to plant groves on seven camping-grounds and about 40 market places. Roadside arboniculture is conducted by the sub-overseers attached to Local Boards, while the groves are left to members of the Boards.

The trees which commonly constitute the avenues are bubil (Acacia arabica), chichwa (Albiana procera), nim (Meha nidica), bakani (Meha Azadrachia), pakhar (Picus infectoria), banyan, mahuā and tamaiind In future banyan, mahuā and mango, as the best shade-giving trees will usually be planted, trees being provided in the new avenues at a distance of 50 feet apart. The station of Nāgpur has also 15 roads of short lengths which are being planted with avenues by the Civil Station Committee. A large number of colk trees (Millingtonia hortensis) have tormerly been planted on these roads, and this tree is not suitable for avenues as it is liable to rapid decay and is easily uprocted. The existing trees have consequently been pollard-

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ed at a height of 20 leet. Other existing trees, which are considered unsuitable, are teak and gold mahur (Poinciana regia). The saplings are now provided with metal tree-guards, which are neat and ornamental, and can be removed from one tree to another as required.

## MINER ALS.

## (L L FERMOR.)

List of mineral products 194 The following economically valuable minerals and mineral substances have been found in the NJgpur District —

- 1 Building stone
  - 2 Coal
  - 3 Copper-ore
    - 4 Gold.
  - 6. Lead-ore
  - 7 Limestone.
  - 8 Manganese-ore
  - o manganese-or
  - Mica.
- 10. Ornamental stones and gems
  - 11. Road metal.
- 12 Wolfram
- 195. From the quarries at Kamptee and Silewaia a very

Building stone quarried It has been used in the construction of buildings and bridges, a fine example of the latter being the handsome bridge over the Kanhān at Kamptee. It is of fine grain and eminently suitable to carving, and many temples are to be seen throughout the District constructed of this stone and elegantly carved In the northern parts of the District near Choibaoli and Baregaon there is a large variety of crystalline limestones, some of which would probably make fine marbles. The Deccan Trap also forms an excellent building material and is quarried for this purpose at the foot of Stitabildi Hill The fort on the top of this hall is largely built of basalt.

Another stone that has been extensively used is the quartzite, often slightly micaceous, forming the Ramtek rance of hills. It is probably this stone that has been used in the construction of many of the Ambala temples. of the steps leading up from these to Ramtek Fort, and of the Jain temple situated on the north slope of Ramtek Hill

196 Indications of coal and conner-ore.

It might be thought from the presence of the Gondwana series in this District that coal ought to be found. Blanford, however, was unable to trace in

them any indications of the presence of coal, and thought it unlikely that any would be found1.

Ores of copper have never been recorded as occurring in this District In 1904, however, I found that both erubescite and chalcopyrite occur in small quantity in a basic dyke-like iun of rock at Mahali, about 4 miles north-east of Paiseoni. The quantity, however, was very small and a sample I took assayed only a half per cent of copper During the construction by the Central India Mining Company of the mining tiamway from Waregaon to Mānegaon, some copper pyrites in a quartzose matrix were exposed in a cutting near Mandri. On investigation, however, it was found that the mineral did not occur in quantity.

197 No iron-one deposits of any importance seem to have been found in this District Iron and lead As a continuation of the hill at Mahah upon which the copper-ore is found, there is a low ridge of magnetite-quartz-rock, pieces of which when broken off exhibit strong polarity. In one place in the rock I found two magnetic poles, one north and the other south, situated about 8 inches from each other

One occurrence is known of lead-ore in this District. namely at Nimbha, about 17 miles north of Nagpur. Here

Rec Geol Surv Ind., I, p. 26 (1868).

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Captain Jenkins found loose boulders of galena on some small hills  $\bar{\mathbf{I}}$ 

198. There are in Nagpur limestones belonging to tocks of two different ages. One of these state of the Limestone found at Kelod and Chicholi, and the other the crystalline limestones found in some abundance near KoiAdi, Baregaon and other places in the north-en-tern coinci of the District. It would probably be found on investigation, however, that the larger portion of the limestones of these two ages is too impure to be used as a source of time. But sufficiently pure examples could probably be found in some places amongst the crystalline limestones. The requirements of the District in lime are said to be met by burning kamkar.

199. Manganese-ores occur in such abundance and are

worked to such a large extent that a Manganese considerable space must be devoted to their consideration. The District contains over 30 known manganese-ore deposits, of which about 20 have yielded ore fit for export purposes. Voysey in 1833 described the manganese-ore in the Pench river at Parseoni, while Captain lenkins in the same year, besides this occurrence, recorded a similar deposit of manganese-ore in crystalline limestone at a place four miles north of Kumhari, this was probably the Junewani deposit. In 1859, Lieutenant Oakes brought to notice the Mansar deposit described below; and then W. T. Blanford in 1872 discovered manganese-ore at Ko legaon Nearly thirty years later Messrs. W. H. Clark and H. Dodd of the Vizianagram Mining Company visited the District and following up the references in the first edition of the Manual of geology visited Mansar and Kodegaon, and whilst prospecting in the neighbourhood discovered the Gumgaon. Rämdongri, Kändri, Beldongri and other deposits. The Central Provinces Prospecting Syndicate which was formed to develop these deposits produced over 35,000 tons in the

<sup>&</sup>lt;sup>1</sup> Asiatic Researches, XVIII, p. 198.

first year's work (1900). Since then many other deposits have been discovered and opened up by various people. The total production for 1906 was about 146,000 tons or about an eighth of the world's total output. The total production from 1900 to 1906 is about 600,000 tons. The following is a list of the deposits known to occur; the holders of licenses or mining leases for the deposits are shown in footnotes:—

1 Kodegaon (a); 2 Gumgaon (b), 3 Ramdongri (b).

4 Risāra ; 5 Nāndgondi; 6 Sītāgondi , 7 Kāndri (b) ; 8 Mansar (b) , 9 Mansar Extension (c) , 10 Parsora (c) . 11 Borda (d), 12 Parseons and Bansinghi (d); 13 Dumri (d); 14 Satak (b,c); 15 Beldongri (b); 16 Nagardhan (c). 17 Nandapuri (c) , 18 Lohdongri (b) ; 19 Kachurwahi (c) ; 20 Waregaon (c) , 21 Khandala (c) ; 22 Mandri (c) ; 22 (a) Panchāla (c); 23 Mānegaon (c), 24 Guguldoh (e), 25 Bhandarbori (e), 26 Mohgaon; 27 Palı (c); 28 Pench River Gokula; 29 Mandvi Bir (d), 30 Junewani (d); 31 Junapāni (d). Of these deposits Nos 26 to 31 are characterised by a 'country' of crystalline limestone in which the manganese ore occurs as bands of nodules, piedmontite being also usually present. Such deposits are not usually of any great economic value, but an exception seems to be Junapan, where there is said to be a regular bed of ore. Nos. 11, 12 and 16 are only occurrences of pebbles and fragments of ore, which have not been found in situ,

The remaining deposits occur as lenticular masses and bands in the Archaean quartzites, schists and gnesses and appear to have been formed, at least in part, by the chemical alteration of the tocks of the gondite series (see para.

<sup>15),</sup> and only the important ones can be noticed below.

(a) Indian Manganese Co., (b) Central Provinces Prospecting
Syndicate, (c) Central India Mining Co., (d) Cooverst Bhoja, (e)
Issue & Co.

The san	iples taken	by me	were	analysed	at	the	Imperial
Institute	The mean	n of 26	analy	ses of sam	nles	18:	

Mangar	1050	•••	••		***	••	- 51 36
Iron	•••		•••				. 6 45
Silica						***	- 7 07
Phosph	orus			 			. 0115
Moistur	e						. 049

The inclusion of analyses of samples from Kāndu and Mansau would somewhat raise the average percentage of manganese These were not included in the mean of the analyses as only hand specimens were taken '

(2) Gumgaon — The ore-body forms the south ade and top of a bill 100 feet high which strike E. 10° N. the north sade bong formed of schucase micaceous quartrite separated from the ore by aband of decomposed felapathe mica-chots. The ore body is son for 1200 feet along the strike and is pethaps 300 feet wide, but a considerable portion of this, especially on its north side, consists of banded speasariet (Margarrel)—quartriced (gendicip) and white and grey quartrites, the garnets showing all stages of shange into main genes ore. The working on the face of this hill show that the ore-body is divided by large divisional planes parallel to the strike and dipping at 70° to overcuate to the S 10° W.

The south slopes of this bill are covered by a deposit of loose-ore, usually called boulder or float-ore in the Central Provinces, but as both these terms are misleading, it will be better to adopt the term talus-ore, though the pebbles of ore at many deposits do undoubtedly often appear to have been rounded by water-action.

(3) Rämdongri.—There are here three hills on which manganeseones occus, and it is the disposition of these ore-badies relative to the accompanying quartities and gnesses which originally suggested the theory, now discarded, that these manganese-silicate rooks are of

The following are descriptions of some of the deposits —

<sup>(</sup>i) Kodegaon.—Neas the west end of a range of quantite and mica-quartiz-schut hillocks, terminating near this village, are two appraently separatic manguage-core deposits. One is minediarly to the north of the west end of these hillocks and is composed of a fine-grained polimelates—bannier mattire, containing numerous bands and patches of quartite and spessartiferous rock mixed up with the ore. The other deposit is situated ‡ mile south-west of the west end of these hillocks and originally cropped out as a small patch a few square feet.

Pegmatite, the rock in which mica of commercial value is found, is of common occur-

Mica rence, traversing the crystalline and

These pegmatites have, however, never metamorphic tocks been exploited for mica, and it has yet to be shown that there are any occurrences of pegmatite containing mica scales of any considerable size. The largest mica crystals I have seen were obtained in a pit dug near the Lolidongii manganeseore deposit, and consisted of muscovite up to 2 inches across,

igneous origin. The ore-body forming the principal hill, on which a certain amount of work has been done has a total length of 2500 feet and a maximum width of 1500 feet (judging from outcrop exposures), while the hill rises to about 140 feet above the plain A very large proportion, however, of this enormous mass of manganese-bearing rock still shows remains of the original spessartite-quartz-rock (gondite) which renders it quite unfit to be worked. The good ore seems to be confined to the south edge of the hill, the talus-ore derived from this was being worked, the pits made often showing a depth of 10 to 12 feet of such loose ore with interstitial ferruginous clay. In such work every pebble has to be fractured to ensure the stacking of good quality ore. This same deposit is also the nidus of a new manganese-pyroxene (blanfordite) of remarkable pleochroism (carmine, blue, and hlac), while abundance of rhodonite is to be found in places

(7) Kändrı -This is probably the finest body of manganese-ore yet found in India; it has been developed in most workmanlike fashion. It consists of a lenticular band of ore 1 mile long, curved into a horseshoe shape, forming the backbone of two hills joined by a saddle. The south hill forming the E -S -E. arm of the horse-shoe is that on which most work has been done. The ore-band, as here exposed, varies from 70 to 100 feet in width, and, as seen in 1904, was a very fine quality throughout the 700 or 800 feet measured horizontally, along which it had been opened up This ore is all very fine-grained. bright-grey and buely crystalline, some very haid and some-especially towards the middle of the deposit-somewhat softer, on this portion of the deposit very little cleaning of the ore is required. The ore also shows beautiful grooving and slicken-siding parallel to the strike of the ore-body in the south hill. The 'country' consists of fine-grained gneisses, mica and talcose-schists dipping conformably with the ore-body, ie, towards the centre of the horse-shoe. The saddle connecting the south hill to the north shows a large amount of spessartite-quartz-rock (gondite), but in the north hill the oreMINERALS 213

201 The large variety of marbles that occur in the Archæun rocks of the northonal gens observed in the District have already been mentioned in the gondite series a rock of not uncommon occurrence is rhodonite-lock, sometimes containing spessaritie as well. In some countries rhodonite is used as an ornamental stone, table tops and small ornamental objects being constructed from it. The most famous locality for such rhodonite is the Uial Mountains. It has yet to be proved that sufficiently

body again becomes workable. On the south and south-west slope of the south bill is a large amount of talus-ore up to 12 feet thick, which has to be removed before attacking the ore-body from this side. Such talus-ore is, however, often as profitable to work as ore in vitin.

(8) Mansar -This is the ore-deposit mentioned by Ball as situated 3 miles west of Ramtek The ore body occurs as a band, so to 60 feet thick, in mich schists, and forms a curved south-cast running ridge which dips steeply to the south west side and rises to 350 feet above the plains at its highest point. It is traceable for about it miles in all and is best along the highest parts of the ridge where an aerial ropeway and a gravity inclines have been constructed to bring down the one. The ore is as usual a mixture of braunite and psilomelane very similar to that of Kandri Besides the large quantity of ore still in vitu in the hill, a very large quantity of talus ore has been excavated from the north slopes. In many parts of the deposit, spessartite and rhodonite are to be found, and at the south-east end, within Chargaon village limits, in an excavation known as the 'Kamptee Lady' pit there is exposed a thickness of a feet of rock composed largely of beautiful orange and deep orange-red transgohedral spessartite crystals, up to an inch in diameter, and set in a matrix, either of Soft manganese-ore or of pink rhodonite, white barytes, and a green phosphate, probably a new species, in the latter case it forms a most beautiful rock. This is the best locality yet found for good spessartite crystals.

An analysis by Mr. Mallet of a sample from this locality showed 5466 per cent. Mn and indicates a mixture of 60 per cent of braunite with 40 per cent, of pulomelane,

(9) Mansar Extension.—This is simply a westward extension of the Mansar deposit, which has here dipped beneath the enclosing mica-schists. The back of the ore-body has been revealed by some shallow excavations. large pieces of rhodonite are to be found in the Någpur District for use as table tops; but there is probably a considerable supply suitable for carving into small ornaments, or for use in influid work. The colour of the rhodonite is a beautiful rose-pink, often maiked with black veins and spots due to alteration. It is sometimes spotted with orange, due to the inclusion of spessartite, the manganese-garnet

Agates and chalcedony are probably to be found in the trappean portion of the District, these, when cut and polished, can be turned into ornamental objects of considerable beauty, as is so well seen at the Marble Rocks near Jubbulpore

(to) Parsons—Probably the eastward extension of the Mansar-Chargaon or-band though there is half a mile of alluvial country between the two. The pits are in this alluvium and were parily filled with water so that but little could be seen, but, judging from the analysis of a piece of ore stacked here, the quality of the ore below is good, although high in 100.

(13) Bellongri.—This is one of the best deposits, and is being worked by a quarry in the allustium. The ore body has a steep dip to S. 10° Es, except at the eastern end where it is towards the south cast. It is about 66 feet wide and has been exposed for a length of some goo feet. Some of the ore is soft and dirty, some is palomelane, and some the usual pulomelane-braunite mixture. The magnetic managenes verdenburger was found

(18) Londongri —The ore-deposit occurs as a low flat mound about 380 yards long and 200 broad by about 30 to 35 feel high, and consists of a mass of crumpled marganese-ore 'bedn,' of which the total thickness may be about 60 feet. The crump ray is, of course, the cause of the wide outcrop. Almost the only material to be seen wherever the billock has been quarred as manganese ore, of which a large proportion is braunte, often coarsely crystalline. The quarry is connected by tram line to bachin with

(19). Kacherwahn — Thus 18 a quary in the allavium about 14 miles due east of Loldongri. The orehand has been exposed for about 100 yards, 18 about 80 feet wide and dip. S. 10° E. at 50° to 56° Layers of quartate and other rocks are interbanded with the cre This deposit contains the beautiful manganes-epyoxene, blanfordite, also found at Ramdongri Octabedral braumte crystals, often twimed, are found in this quarry in a febpathic rock which is prob-

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No gens have yet been recognised in this District, but it must not be overlooked that the manganese-gainet pessartite, so common in the gondite series, is sometimes used as a gen when obtained in clear crystals of an orange or red colour. In the manganese mines I have often found small crystals of the lequisite beauty of colour and clearness for this purpose, but they have always been too small.

ably intrusive in the ore-body The quarry is connected by tram-line to Wareraon

(20) Waregaon —This is about t mile cast of No. 19 and is connected by a glime framine to This ta station. The ore-deposition nected by a glime framine to This ta station. The ore-deposition here been worked out down to a depth of as feet, and as more water than can be controlled, except with sery powerful pumps, now eather than can be controlled, except with sery powerful pumps, now eather than can be controlled, except with sery powerful pumps, now eather than can be consistent of one.

(22) Mândri — There are bere, in a 'country' of quantite and micachists, two roughly parallel bands of ore about too yards apart striking roughly cast-south-east, with a steep dip to the south side. They are, however, very greatly contoted, and, together with the quantitates, often show shelensoning stratuous. The northern thand was exposed for 300 yards with a width of 6-14 feet, while the southern band was 550 yards long and 24-40 feet wide. Both yield rather good soft one, often somewhat spout by yellow grante bands.

- (2) Manegano —The man or e band is 1½ miles lon; with a curved strike averaging east and west, and at its west end is taken up on êchlôn by a sub-idiary band. In places the band, which has a steep dip to the south side, is as much as 80 feet wide. Besides aft in quantity of good ore there is a notable quantity of beautiful pun triodonite. Both this deposit and Mandri are connected to Waregaon by a traumway that involves the crossing of the Sür river, the total length of line being about 8 to g miles
- (z4). Gaguidoh —At its east end, the Manegaon ore-band apparently dives beneath a hill composed of quateriar and mon schits, and the Guguidoh deposit is probably only a continuation of this band, which has here re-suppeared at the surface and can be traced for another 13 miles. This deposit crops out on top of a hill 250 feath ligh, where the ore band is 15 to 40 feet wide. It is peculiar in that it monast's largedy of cavernous and betryoutdle pationales, which has possibly been formed by surface action at the expense of the ordinary breautine-polionicalizare, into which it will possibly pass in depth. A considerable amount of excavation has been carried out resulting in the despitach of a quantity of ore.

Almost any of the older crystalline rocks of the

Road-metal.

District may be locally used as

road metal, but the favourite

materials seem to be the basalts and delerites of the Deccan Trap series in the portions of the District on or near the Deccan Trap area, and quartities or gness, and sometimes marble, in the Archæan areas.

203. This valuable and comparatively rare mineral has
recently been found by Mi. J. Kel-

lerschon at Agargaon, but I do not know in what quantity,

(27) PAL—At this locality there is a series of crystalline limistones which often contain abundance of predimentive and sometimes spessartite. Nodules of manganese ore often occur in strings in this limistone. There is also a black limistone which owes its colour the secondary infiltration of manganese owdee, At one place a large number of irregular cavities have been formed in the limistone and subsequently filled with exceedingly beautiful radiated pyrolustic with largely mammiliated concentric surfaces dividing the ore into concentric layers. This ore is of great purity and very free from iron as will be sen from the following analysis.

Specimen No. 932.

Iron	***		***		***	•••	•••	0'04
Silica			••					0.33
Phosphorus			***	***	***	**		0*004
Moisture			•••	•••	•••	***	•••	0 12
Manganese	pero:	kide		•••	•••	•••	***	95 57

Unfortunately it only occurs in irregular pockets, so that it would hardly pay to blast the hard innestone for it, unless a market could be found for it for decolorising glass, very high prices can be obtained for pwolvate suitable for this purpose.

Nos. 29 30, 31 — Mandav Bu, Jonewan, and Janagani are all on the same band of tock running roughly east and west. In Nos. 29 and 30 the one occurs as nodules and small leithteles in a crystalline limestone, which often contams predmontite, and by the solution of the limestone by surface waters a restudad alepost of nodules, in place, seweral feet think, has been left. At the Junaphni (the eastern) end of the band, however, there seems to be a definite tand of magnanese-ore which re-appears at the surface a little to the south, grobably on account of a synchrail fold embracing both the ore band and the assonated limestone.

#### CHAPTER VII

### FAMINE

204. The earliest famine in the Nagpui District of which record remains was that of 1818 19. Early famines The immediate cause was the failme of the monsoon followed by excessive main in the cold weather Acute distress and famine conditions prevailed, resulting in serious loss of life. Many of the poorer cultivators of Nagpur are said to have sold their children into slavery. In 1825-26, according to oral tradition, famine attended with loss of life occurred in Nagpui, and it is said that many people died after eating the cooked food doled out to them at the Raia's palace. The cause of the famine was a deficiency of rainfall. Grain was sold at 6 seers a rupee In November 1831 there were heavy falls of rain at the time when the autumn crops had been cut and gathered but had not been threshed and haivested. The erain was severely injured, while the continuous rains prevented the spring sowings and caused such seed as had been sown to rot in the ground. The remains of the spring harvest were finally destroyed by blight. The outturn of both harvests was very poor, and severe famine appears to have ensued to: a period of 8 or 9 months. The piece of grain rose to 8 sees to the rupee in April 1832. Distiess was acute and was not alleviated by any special demand for labour, while starving refugees from Beiär and Khandesh flocked into the District. It was recorded that many people changed their caste to obtain food and parents sold their children for 10 lbs. of wheat. The death rate for the famine period was locally estimated at a fifth of the population. Cooked food was doled out by the Bhonsla administration at Nagpur to 5000 people daily, and alms houses were established at central places. Grain was distributed without

interest from granaiies at Nagpur, Chanda and Bhandara

The export of food stuffs was strictly forbidden, and a price was fixed for sale, pressure being directed to cause the holders of stocks of grain to retail them at fixed rates the city of Nagpur 5000 persons are said to have died from want of food. On the whole, the Bhonsla administration did as much as any native government would consider its duty toward the relief of its distressed subjects, but it must be remembered that the country had just had the advantage of twelve years of British rule under the Regency of Sn Richard Jenkins, concluding in 1830, and the Maratha officials who had acted under English officers were still carrying on the government according to the methods which they had then learnt. In 1868 the rains ended abruptly a month before time, but an opportune shower in September saved the situation over the greater part of the country. Only slight distress was experienced in the Nagpur District. 205. Abnormal rain fell in September and October 1892,

The sensons from 1892 to 1836 and it was followed by excessive rainfall in the first three months of 1893 when 8½ inches were received

as against an average of 12. This caused tust in the wheat, but as the rain fell when the crops were ripening, the damage was not very serious and the wheat haivest was 75 per cent, of normal, while the autumn crops were excellent. In the autumn months of 1893, 16 inches of rain were received as against an average of 11 inches, the sowings of the spring crops were delayed and the seedlings swamped. The climatic conditions in the cold weather months were also unfavourable to these crops. The sky remained clouded and the atmosphere moist. Wheat and linseed were spoiled by rust and the pulses were destroyed by insects. Juar gave an outturn of go per cent., and linseed of only 68 per cent. The total outturn was 83 per cent, of normal The year 1894-95 brought no return of prosperity Excessive rain (21 inches as against 11 inches in an average year) fell in the autumn of 1894, causing great damage to the autumn crops and

greatly impeding the sowing and germination of the spring crops. Although the cold weather rainfall was normal, both the harvests were very poor. Juar gave an outlurn of 45 per cent, cotton of 30 per cent, and linseed of 23 per cent., the average harvest being 54 per cent of normal. It is noticeable that this was worse than the harvest of the following or lamine year, 1896-97, when the outturn was 67 per cent of normal. Although the poorer classes. felt the want of food, the distress did not become general and the people had sufficient sustaining power to tide over the year. Famine conditions did not prevail in the District. but the people were distinctly impoverished. The birth-rate was normal at 35 in 1894, and 34 per mille of population in 1895, but the death-rate increased to 38k in 1804 and 25 in 1805 as against 25 in 1802 and 1803. The special feature of the cycle of wet years was that damage was done to the best lands, while the poorer cultivators did not suffer so much In 1895-96 the autumn rains were very short, being only 4% inches as against an average of 11. The monsoon however had been satisfactory up to the end of August and the autumn crops yielded excellently; the sowings of spring crops however were short and their yield deficient, wheat and gram each giving only half the normal harvest

206. In 1896-97, the famine year, the monsoon rains had been abundant and up to August prospects looked brilliant; but in the critical months of September and October, which determine to a great extent the nature of both the harvests, less than 2½ inches were icceived, the result being the partial failure of the autumn harvest and a further shrinkage in the area sown with the cold-weather crops. This amounted to 514,000 acres in 1896-97 against 615,000 in 1894-95. Juar and wheat, however, yielded fairly, and the all round outturn was 67 per cent of normal. The District thus escaped fauly easily as companed with most others and such distress as existed was due to the cumulative effect

of a succession of bad years and was accentuated by the high prices resulting from the famine condition prevailing over a large part of India. In September 1806, the price of mar rose from 18 to 14 seers, that of rice from 12 to o seers, and that of wheat from 14 to 10 seers to the runee It is interesting to note in passing that what were then famine rates are now, ten years later, little more than the standard prices. In addition a number of weavers had been thrown out of employment, owing to the year being Singhasta or one in which Hindu marriages were forbidden. The people became alarmed and accused the dealer of having combined to raise prices The Koshtis, always inclined to, he turbulent, were joined by the lawless classes of the town and began looting the markets and giain shops. A riot developed, but was promptly suppressed by the aid of the military and the volunteers, and the ringleaders were severely punished. Slight disturbances broke out in other towns. following the example of Nagpur, but were soon put down. Towards the end of 1896 the usual migration of labourers occurred from Balaghat and Bhandara into Beiar, but finding no work there, many of these wandered back into Nagpur, while other refugees came down from the north, where matters were much worse than in Nagpur. It was estimated that about 16,000 persons entered the District, of whom 4000 settled here.

207 Relief works were opened in November, but the distress was never very serious Up till January the numbers on works were quite insignificant and the

maximum on all forms of relief was reached in May with 18,000 persons or 2½ per cent. of the population. The circular road round Ambājheri was constructed and the Nāgpur-Umrer, Umrer-Bhiwāpur and Kalmeshwar-Kātol roads were improved. Poor-houses at Nāgpur and Kamptee were opened by private' subscription in the autumn of 1866, and were afterwards taken over by Government, and poor-houses

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and kitchens were supported by private subscriptions at various other centres. Special relief was given to the weavers of Nagpui, Kamptee and Umier, advances being made to middlemen who supplied thread to the workmen, while the cloth produced was purchased by Government The net expenditure amounted to Rs 80,000 The total expenditure on famine relief was Rs. 5 lakks, and about a lakh was distributed from the Indian Charitable Fund. No revenue was suspended. The birth-rate to: 1897 showed no substantial decline, while the death-rate was 50 per mille or not exceptionally high Prices reached their maximum in July and August 1807, when wheat was 8 seers and juli 81 seers. There was a marked increase in both serious and petty offences against property, the number of cases of this category reaching 3300 in 1897, as against about 1500 in the two pieceding years. The famine was accompanied by a scarcity of fodder and water, which caused serious losses of cattle. The bulk of the mortality of stock occurred after the rains had set in, and was no doubt due to the famished and weakened animals surfeiting themselves on the new and damp grass which was unfit for consumption.

ao8 In the tollowing year 1897-98, a bumper harvest
The famine of 1900 was reped, but in 1898 99 there
was nead, but in 1898 99 there
was no run between the end of
September and the hot weather, and though the autumn
havest was a good one the spring crops were short. On
the whole however the harvest was 92 per cent. of normal
in 1899 April and May were cloudy and rainy and this was
regarded as an ominous size. The monsoon failed completely, the rainfall of the period June-August being only
11 as against an average of 33 inches while from October to
11 and year of the was received. The annual fall was less than
a third of the average in each tahsil except Rāmtek, where
it was about a half. In spite of the scanty rainfall cotton
and juar gave 45 per cent. of an average outturn and the

Katol tahsil was not severely distressed. The other crops naturally failed completely. The Dongartal tract in the north was most affected, the people here being poor and without resources, and next to this came the gleater part of Umrer. Relief operations commenced from September and were developed in extent as the distress increased. Road-works, kitchens and village relief were the three principal methods employed for supporting the destitute classes. Under the Public Works Department 11 camps in all were opened, and the highest number of workers was 30,000, the average being about 15,000. The Ambaiheri, Telinkheri and Juma Talao tanks were deepened, and new roads were made from Nagpur to Bishnur, Patansaongi to Khāpa and Bhiwāpur to Pauni. Other roads were improved. The distribution of cooked food in kitchens commenced on a small scale and was gradually extended, till in the rains 213 kitchens were open and 67,000 persons were being given food. Village relief was also begun on a small scale in the Deolapar tract and the Umrer tabsil, and was gradually extended over the whole District during the hot weather and rains. The maximum number in receipt of cash doles was 12,000 in September. Help was given to weavers in the town on the same system as in 1897 but on a much more layish scale, the total expenditure being 61 lakbs, but in return for this cloth of the nominal value of nearly the same amount was obtained. The total number of persons relieved increased gradually to 66,000 in the beginning of July, when it rose sharply to 90,000 at the end of July and 108,000 in August, this last figure being equivalent to 14 per cent, of the population. The total famine expenditure was Rs. 194 lakhs and the loss to Government on account of suspensions of ievenue and forest and other concessions was about 71 lakhs more. About 2 lakhs were distributed from the Indian Charitable Fund for the purchase of seed-grain, blankets and clothing.

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200. The mortality of 1000 was the highest on record for the District, being nearly 58 per Mortality and pricesmille, but there is no reason to suppose that any part of it was due to direct privation. But the mevitable results of exposure and unsuitable food especially in the case of children, which no efforts of Government can avert. lowered the physical condition of the people and made them an easy prey to the attacks of disease. The water-supply was insufficient and therefore necessarily polluted, and a fertile source of disease The year was exceptionally unhealthy and the famine was accompanied by epidemics of plague, cholera. small-pox and malarial fever. The birth-rate was normal. indicating the absence of any marked physical deterioration Although the supply of juar fodder was fairly adequate, a quantity of this was exported, and the grass withered. Cattle suffered heavily from want of food and water and the mortality amounted to about 36,000 head, being considerably higher than the average. Wheat averaged about 9 seers a rupee and juar a little over 10 seers from September 1899 to October 1000. At the commencement of the famine an outbreak of petty offences against property occurred, but proved to be only temporary, and the number of cases of this class was less than 2000 as against 3000 in 1897

210. From 1900 the District has enjoyed a succession of faulty prosperous seasons, and the large profits reaped from the cotton crop, together with the demand for labour caused by the development of mining and factory industries and the extension of communications has raised wages to a level never before dreamt of and enabled the pooser classes to enjoy an unprecedented degree of comfort. At the time of writing another failure of crops is being experienced owing to the short monsoon of 1907, but it seems unlikely that a single bad year can now produce serious distress over the District as a whole, or, unless it should be followed by others, seriously retard its development.

#### CHAPTER VIII

#### LAND REVENUE ADMINISTRATION '

211. The sovereignty of the Districts of the Nagpur Division was not acquired by the Revenue system of the British Government until 1854, but Marathas owing to the minority of the Bhonsla Raja they came under our management in 1818 and continued to be administered by European officers until 1830, when they were restored to native rule We have fortunately from the pen of Sir R Jenkins, Resident at Nagpur in 1822, a complete and interesting account of the condition of these Districts when their management was assumed The assussment of revenue was made annually and the amount was fixed in the first place in the aggregate for the pargana and then distributed among the villages by the pargana officer or kamaishdar in consultation with the natels. It is a curious fact to modern notions that though engagements were taken from the patels at the commencement of the agricultural year, the amount for which they were to be responsible was not fixed and communicated to them until some months later, when the character of the season became pretty well known. This practice undoubtedly enabled Government to extract a great deal of revenue from the people, as each person was fully rated according to his ability to pay in each year. At the time when the patels concluded formal engagements for the revenue of the year, they were actually in ignorance of the amount for which they engaged This led to a curious device for apportioning the responsibility for the revenue among the ryots For the main portion of the village lands, technically called the chal lands, no rental was fixed, but each field was given a value to express its revenuepaying capacity in relation to the other chal fields of the

<sup>,</sup> This chapter is abridged from Mr. Craddock's Report.

village This value was termed the am of a field and was ordinarily expressed in annas or in cownes per rupee. The revenue was apportioned among the ryots according to the ains of the fields held by them. Thus the ryot who held a field, the ain of which was 6 pies, would pay half the revenue which was payable by a ryot holding a field the am of which was 12 pies, and in this way it was possible to settle at the commencement of each year the proportion of revenue payable by each man, although the amount of the revenue was unknown The ain of a field was also not necessarily permanent, but might vary from year to year A further complication was introduced by the fact that this system did not apply to all the village lands, but that a certain area was commonly let each year on fixed money rents Such fields were called thok and they usually comprised the poorer land for which the patel was unable to conclude engagements on the ain system, the ryots being unwilling to cultivate them except on limited responsibility, When the revenue of the year was given out, the rent of the that fields was first deducted from it and the balance distributed over the chall fields in proportion to their ains. The difference between chal and thak fields was not permanent. and some might change annually from one denomination to the other, land when in process of deterioration passing from chal to thok, and when advancing in improvement from thak to chal. The thok fields were usually a small minority. Each year a record was prepared called the lagwan. It answered to the jamābandī of Upper India and gave details of the engagements concluded at the commencement of each year between the patel and the ryots. It showed the name of each ryot, the name of each chal field held by him, and the ain of that field as settled in the preceding year; also the same particulars for the current year, noting all changes whether arising from the transfer of fields from one ryot to another, or from the transfer of a chal field to the thok class or vice versa, or from variation in the ains of any of the chall fields. As soon as the amount of the revenue was known, the rate of assessment on each unit of the ain, called the dhāra, was also inserted.

Neither patel nor ryots were allowed any hereditary

rights which might clash with the Absence of security of efficiency of this system. 'The patel' wrote Sir R. Jenkins, 'is the agent

of Government for apportioning and collecting the rent of ' his villages, for which his responsibility is absolute, and he ' nossesses a subordinate and rather undefined magisterial

'and judicial authority. The remuneration for agency or

' responsibility, which is paid either in money or rent-free land 'besides certain trifling dues and privileges is commonly

' one-fourth of the Government share, subject to various deductions which reduce it to about one-sixth. The office

' is held at the pleasure of Government, being neither here-'ditary nor saleable, and on the ejection or resignation of ' the incumbent no malikana is allowed. It is true that patels

' are frequently succeeded by their sons or other members of their family, not however by virtue of any hereditary 'right, but by sufferance or a new appointment by Govern-

' ment, and whoever the incumbent may be, he is charged ' with the full exercise of all the duties and entitled to all the ' privileges of the office unencumbered with any interference

or claims on the part of his predecessor or family' The rvots held their lands on yearly leases granted to them by the patel. None of them were entitled to cultivate the same fields in perpetuity, not was it the practice to grant leases

to them for more than one year. The actual principle on which the revenue was raised or lowered appears to have resulted Enhancements made by

from a soit of compromise between

the character of the season and the necessities of the central Government. Curiously enough a sort of permanent revenue demand seems to have been recognised called the asn jamabandi. What this was cannot

the Marathas.

now be stated with any certainty, but it appears to have been the demand which the Marathas found existing at the time that they took over the country from the Gonds Similarly in Nimai the Mughal revenue, known as the am Mai Kalit, remained the basis of the Maiatha demand It could, however, be modified at the annual settlements with the patels according to the increase or decrease of cultivation. Their method of raising the assessment was to superimpose cesses known as patitis or bargans which were percentages calculated on the aim jumābundī. The amounts of the pullis imposed by the different Bhonsla Rājas were as follows expressed as percentages on the aim jumābundī.

Raghuji I	(1743-1755)	•••	•••		 80
Jānojī	(1755-1772)		•••	•••	 96
Sivaji	(1772-1775)	•••			32
Mudhojī	(1775-1788)	•••			35
Raghmi I	1 (1702-1816)				 120

Thus Raghuji II in his cases of exaction after the peace of Deogaon more than doubled the proper revenue. At this time much land went out of cultivation. Besides the land sevenue, the Marātha's realised a large number of imports and dues on all branches of trade and industry

Period of British management triennial were substituted for annual settlements, and the administration was very energetic. The yearly papers

were tabulated, names were given to each field and each field was assessed with a separate sum. The kinnings made a cour duting the rains, checked the kingsams and collected information which was laid before the Superintendent or District Officer as the time for ro-assessment came round. The basis of the assessment was the kingsam, the position of which came therefore to be entirely changed. Instead of being a record of the distribution of the aggregate village assessment, it became a record of the details on which the aggregate village assessment was to be framed. In con-

sequence the patel had an object in understating the rents and the lapsions became an untrustworthy puide to the village assets. It was in consequence of the unieliable nature of the village papers that no regular determination of the assets seems to have been subsequently attempted at the 30 years' settlement. The District containing the present area of Wardha and Nagous was then called Deogarh below the Ghats. It was divided into 130 parganas in charge of 60 Kamarshdars, whose pay only averaged Rs. 25 a month. When he took over the management in 1818, Sir R. Jenkins reduced the number of parganas to 23 with as many Kamaishdars and raised their pay to Rs go a month. At the same time steps were taken to reform the administration of the land revenue which had become utterly corrupt, while adhering to the methods of the Marathas exactions of the last two reigns, with the abuses, which crept in under an underpaid staff, the accounts were in a state of ventable chaos. The papers of every village had to be examined and large balances remitted. These measures, which were carried out in 1818 and 1819, resulted in the nominal demand of Deogaih below the Ghats being at once reduced from Rs. 16 32 to Rs. 14'19 lakhs In 1819 the demand was fixed at Rs. 12 63 lakhs. Many villages had been deserted and the termination of the war and pacification of the country was followed by a heavy fall in prices. In the following years, however, the management of Butish officers inspired the people with confidence. Villages were taken up again and land was brought under cultivation. During the first seven years of our management the number of inhabited towns and villages rose from 1890 to 2075 and the revenue increased from Rs. 12'47 to Rs 13 72 lakhs.

215. Mr. Fuller¹ states that our policy during the period of management was to limit the authority of the patel over the ryot, following the system adopted in the northern Districts. But

<sup>1</sup> Note on Revenue Settlements, page 11.

this policy, though it eventually prevailed, was not the one enunciated by Sir R. Jenkins, who, as remarked by Mr Craddock, appeared to have leanings in favour of the patels. He wrote as follows1 - It was requisite to touch with a ' tender hand the relation between the patels and rvots; to ' avoid unnecessary interference, and discourage litigation; ' to redress well-founded complaints but mainly to rely on the ' effect of moderate demands on the part of Government, and ' equitable conduct in its operations for realising them, as ' well as on the consequent excitement of competition among 'the patels for agricultural labour, to produce a gradual ' amelioration in the condition of the ryots.' But while the extra cesses and bargans were to be abolished or amalgamated with the rents and the levy of new ones was sirictly prohibited, no attempt was to be made to give any right of occupancy to the ryot. 'There are frequent complaints from ' ryots against patels for depriving them of fields they have ' cultivated for many years, the patel either wishing to culti-' vate the land himself or to raise the rent. No interference ' is exercised on the part of the Superintendents unless any ' violation of positive agreement can be made out by the 'complainant' Government recognised no continuity of tenuse on the part of the rvots and at the commencement of each new year the patel and ryots assembled and a distribution of pan took place, the offer of the pan by the patel to the ryot signifying his acceptance of him as a tenant for the coming year Mi Craddock remarks 'In the Resident's account of the relations of the patel and avots with the Government, we may first discern that leaning in favour of the patel as against the rvot which in after years developed 'into the award by Sir R. Temple of proprietary rights,' There can be little doubt also that the well-meant but misguided interference of the District Officers between the headmen and tenants in the northern Districts furnished a strong argument in favour of this measure. Nevertheless

Report on the Nigpur Territories, page 81

many considerations operated in favour of the tenants, whose part was taken by some of the Superintendents. In the Wainganga and Chanda Districts the Resident was induced to give an order that the patels should not raise the rent of a ryot without the sanction of the pargana officer. This measure did not extend to Deogarh below the Ghats, but the patels here were debarred from selling the cattle and implements of tenants for arrears of rent, which they had formerly been in the habit of doing. It was ordered, on the other hand, that when a rvot left the village in debt to his patel he was not to be allowed to settle elsewhere until he had paid up his arrears. And this order shows, as semarked by Mr. Craddock, that the demand for cultivators to till the land operated in a large measure to protect the ryots. The trend of our policy is, however, shown by the order issued by Colonel Elliot, Commissioner of Nagpur in 1855, which prohibited the patels from enhancing the rent of rvots on account of improvements which they had themselves effected in their holdings. And further that disputes between the malguzars and the tenants in the determination of rent even on newly-broken up holdings must be referred to the village panchayat. And in a treatise on summary suits by Messis. Mandeison and Carnegie, which was a text-book in Nagpur until 1864, it is stated ' In ' short a landlord without instituting a regular suit in the ' civil court cannot oust any tenant whatever, with the one 'exception of his holding a summary decree against him' The result of our policy was that from the period of assumption of management in 1818 up to the 30 years settlement, there was no general increase in rents or revenue and both tended to assume a customary character. The patels were not tempted to raise the rents of their tenants because, if they did so, the results would appear in the rentroll and their own revenue would be raised. The absence of any general revision for so long a period naturally produced glaring inequalities in the rent-rate.

216. In 1830 the Districts were handed back to the Rājā in a satisfactory condition with an increased revenue. Native rule con-

tinued from 1830 to 1854 and this period was characterised by great laxity of administration. The policy inaugurated under British management was adhered to, but without the watchfulness which made it work satisfactorily, and the result was a considerable decrease of sevenue. The Settlement Officer of Bhandara (Mr A L Lawrence) wrote 'During the time of the Subahs ' which followed the British Protectorate the same means ' of discovering the resources of the villages were resorted ' to, but as the eve of the master became less searching, so ' did the labours of the subordinate decrease. In the course ' of time, each succeeding assessment was made on the ' rent-roll, the size of the home farm was also attended to 'and a greater or less percentage on the gross assets 'allowed according to the reputed value of the home lands 'When the patels and cultivators came to understand that ' so much depended on the accounts they themselves showed, the amounts so exhibited had a tendency to decrease. 'Sudden diminutions were naturally suspected and were 'looked into, but a patel who managed skilfully had little ' difficulty in lightening his burdens,' The result was that when the investigations for the 20 years' settlement were made, the rents entered in the village papers were found to be utterly unreliable. In Chanda the last period of Bhonsla rule was characterised by gross oppression of the hereditary patels, many of whom were ejected and their villages made over to court favourites. But in Nagpur and Wardha, which were under the closer supervision of the Raja Raghuji III, apparently a well-meaning but somewhat weak man, there was less opportunity for these abuses. The revenue of the two Districts fell from Rs. 13'87 lakhs in 1830 to Rs. 13'08 lakhs in 1854. The following statement given in paragraph 333 of Mr. Craddock's Report shows the revenue demand

of the Nagpur District as now constituted at different periods in Government runges -

Date of Assertment	Revenue demand of the District (as now constituted )
Last settlement during the minority of the Raja,	Rs 8,99,897
1824-1826 British settlement having effect during the first	9,10,533
years of the Rājā's management, 1827-1829 Intermediate settlement during the Rājā's rule,	8,21,592
1839-1841. Last settlement during the Raja's rule, 1851-	8,45,235
1853. British settlement, 1856 and 1857	8,69,800 8,76,896

217. On the escheat of the tract in 1853 summary settlements were concluded, as The 30 years' settlement shown in the above statement. Orders for the 30 years' settlement were issued in 1860, the survey having been begun in 1858. The settlement was conducted by Mr A. B. Ross of the Civil Service. He was at first responsible for the survey and settlement of both Nagour and Wardha and for nearly a year of that of the Bhandara District also. Wardha was constituted a separate District in 1862, and in 1863 a revision of boundaries took place, by which the old Ashti pargana, parts of those of Kondhali and Kelihar and the bulk of the old Girar pargana were transfeired from Nagpur to Wardha, and 122 villages of the Bela pargana from Wardha to Nagpur The settlement of the tracts transferred to Wardha in 1863 was effected by Mr. Ross. The settlement was introduced in Nagour between the years 1862 and 1866, but the operations were not concluded until 1867. The basis of the settlement was nominally to fix the revenue at half the assets, but the assets were simply estimated by the Settlement Officer at some prospective sum to be realised from the increase of trade and advantages of fixity of tenure and the enhancement of rents by the proprietors But it was probably assumed that

the work of assessment was undertaken more with the object of rectifying aregularities and of giving reduction where circumstances seemed to call loudly for it, than with the purpose of effecting an enhancement. The existing assessment was considered a high one and in 1857 it had been reported that the cultivators had been emigrating in numbers from the District to the Berars The general incidence of the revenue was not oppressive, but in many villages it was collected with difficulty and the instalments from some villages were habitually in arrears. Indeed, it would almost seem likely that the Settlement Officer having determined practically by observation and such information as he had at his disposal, what revenue the village could pay, subsequently estimated the assets to fit in with this. The assets were at any rate based on the vaguest suppositions, allowance being made for the malguzar's profits from lending grain, the capacity of land for future irrigation and the increased value of landed property due to the opening out of new roads. On this basis the Settlement Officer fixed the prospective assets at Rs. 16:30 lakhs, a figure which they had not reached at Mr Craddock's Settlement. The actual assets at the time of assessment were Rs. 11'53 lakhs.

218. The revenue fixed was Rs. 8 78 lakhs, being a small net increase of about Rs. 1000 on that existing before revision. This was the outcome of the mainten-

ance of the existing revenue in the majority of cases and trifling enhancements and reductions in the remainder, and it was justified by raising and low-ening the assumed rental values of the villages. On the actual assets as then existing the revenue tell at no less than 76 per cent. Yet the settlement was very far from being severe and it metely maintained the assessment which had been paid for the previous forty years. The patels had as has been seen to content themselves with a share of 16 per cent, of the assets under

Maratha administration, and they had not yet learnt to expect more They now received the gift of proprietary right, the term of the settlement was for thirty years instead of three and their revenue was not enhanced. They were delighted to be left in the enjoyment of the profits they then had, with the prospect of taking any additional profit that the next thirty years might bring. And the settlement was contemporaneous with the opening up of the District by a railway and a sudden rise in the agricultural produce But the idea, subsequently put forward by some malguzars that the assessment was made at half the assets was an absurd delusion. The incidence of the revenue per acre in cultivation was R. o-11-11. No rental enhancement was made by the Settlement Officer, and the rents remained for years after the settlement practically what they were before it. As has already been seen, the policy under Sir R. Jenkins had tended to prevent the patels from raising rents on their own authority and they had come to consider that they had not the power to do so or that if they did their own payments would be at once again enhanced. It was not considered part of the Settlement Officer's duties to undertake a general revision of the rental. About half the tenants obtained rights which protected them from enhancement, and the consequence was that at Mr. Craddock's settlement, a considerable proportion of the rents had remained practically unaltered for seventyfive years.

219. During the currency of the 30 years' settlement the

Currency of the 30 years' settlement.

District piospered The occupied area increased from 14 lakhs to 15.70 lakhs of acres or by 12 per

cent. At revision of settlement 80 per cent. of the occupied area was under crop The prices of the chief staples increased during the period of settlement by 140 per cent. and rents, including the revenue payments of plot-proprietors, rose from Rs. 977 to Rs. 1174 lakhs or by 20 per cent. The area

cultivated by the proprietors expanded from 173,000 to 228,000 acres.

220. On the expire of the thirty years' settlement the District was re-assessed during the year, 1891 to 1895 by Mr. R. H. Craddock, subsequently Chief

Commissioner of the Central Provinces. The Settlement Report contains a very full and complete account of the District and its population and a large part of the Gazetteer has simply been reproduced from it. The procedure and basis of the settlement are also discussed at length, and the reader may be referred to the Report for the detailed narrative, of which only the barest outline is here reproduced.

221. The settlement was preceded by a cadastral survey, based on a traverse or peripheral The cadastral survey survey of each village by the Survey Department, and carried out by the local paiwaris with the chain and plane-table under the supervision of a Surveyor of the Department. Each patwaii was required to survey his own circle of villages. The survey was completed between the years 1888 and 1892, and the bulk of it was conducted by Mr J. R. Scott. The cost of the cadastral survey was Rs. 1'19 lakhs or Rs, 36 per square mile and of the traverse Rs 25 per square mile. The survey extended to the whole District except 517 square miles of Government forest and six square miles of Cantonments. The total number of fields in the District was 442,000, giving an average of about three acres of occupied area to a field.

222. The attestation and inspection of villages was
Method of assessment,
and 1894. Out of 220 villages in
the District, more than 2000 were inspected by Mr. Craddock
himself. The settlement was made according to the soilunit system, by which a relative factor of value is assigned

236 to every kind of soil and taised or lowered for various advantages and disadvantages in the position of the field. The different soils and positions distinguished are stated in the chapter on Agriculture. This numerical factor was considered to be equivalent to the same number of soilunits, and by this means every field has a proportionate number showing its relative productive capacity in reference to all other fields. By adding the numbers representing all the fields in a village together and dividing them into the iental, the average rent paid by one soil-unit is obtained. The proportion by which the rental generally can be enhanced on the score of rise in prices and increased cultivation is determined; the rent which one soilrent would pay according to the percentage of enhancement is then calculated and the result is known as the unit-rate: and the revised rent for each field or holding is then deduced by multiplying this figure by the number of soil-units contained in the factor representing the field. By this means a correct valuation of the land is arrived at, which the existing rental being affected by numerous extraneous circumstances, such as the status of the tenant, the character of the malguzar, and their relations to each other is very far from affording. Most holdings are also composite or containing land of different qualities, and except by the soilunit system there would be no means of distributing the rental over it The process is of course not merely mechanical, nearly every village being inspected by the Settlement Officer, while different rates of enhancement are taken for different groups of villages and then again varied for individual villages. When the deduced rent or that which each holding should be called upon to pay according to its capacity, has been calculated, the existing rent is compared with it, and if the enhancement would be too large, a lower one is fixed. For the numerous considera-

tions which governed the fixing of rents Mr. Craddock's

report may be referred to.

223 The following statement shows roughly the rental assessed in each tabsil on the different classes of soil in the ordi-

narv	position	-

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23	1	6	7	1	10	8	ŀ	7	9	ŀ	10	2	ŀ	1	9	ŀ	5	7	:	6	10	1	13	0
16	0	15	0	1	1	9	0	15	10	ŀ	1	s	0	11	10	6	11	5	0	15	2	ı	3	10
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In Nagpur tabsil soil factor of Kall II and Kachhar was 40

The highest rental imposed was thus Rs, 3-1-7 an acre on the best black soil of the Katol tahsil. While for the commonest soil of the District, morand II, the rental varied from R 1-5-7 to R 1-13-9. The land of Katol tahsil was the most highly assessed, not because it is on the average the most fertile, but because the cotton and juar crops here are more valuable, and the cultivators more efficient than elsewhere. The statement on the next page shows the differences in the average rental assessed on wheat, rice and minor crop land and on wheat land in different positions.

224. The general considerations affecting the pressure

of the rental and the extent of

its enhancement are thus stated

by Mi. Craddock<sup>2</sup> —

Letter No. 4726, dated 7th December 1899, as Commissioner of Settlements, to the Sucretary.

							Wheat Land.							Gard	Garden Land		Rice	Rice Land	73	M.	Minor Crop	g.
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000 N	Soal factors	Deduced rental		arotari koč	Letner becubed	Soil factors	Deduced rental	Protort to 2	Intra besubed	Soil factors	Irina banubad	W MIN PRODUCT		Soil factors	Deduced rentil,	Soil factors	Deduced rentral	Soil factors	Deduced rent il.	Soul factors	Industrial of	Deduced rental
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'The agricultural tracts of the District as distinguished by their character and cropping fall under three main ' heads-the western and north-western, the juar and cotton ' country; the central and southern, wheat, and the eastern ' and north-eastern, rice, wheat, and miscellaneous crops. 'The most prominent feature is the high standard of kharif ' cultivation, which is carried on under the system followed in Berar and the Deccan and seems to bring with itla higher 'standard of industry than is found in either the wheatorowing tracts of the District or in other Districts in which wheat is the principal crop It is, I think, certain that ' where the climate is best suited to a crop of which the 'cultivation requires industry, the industry will follow, ' and this doubly so if the crop gives a better return to 'industry. This has been the case in Nagpur; the outturns of juar and cotton may easily be doubled by the application ' of manure, and careful weeding and cultivation. But wheat ' and other rabi crops produced in the cold weather lack the ' moisture so necessary for the assimilation of manure and the same amount of manure will add only about 25 per cent, or at the utmost 33 per cent to the outturn, and in ' dry seasons little or nothing.

Similarly, in the rice-growing areas of the District we find that a cultivator with wheat and rice fields will laish all his manure and labour on the latter, and allow the former to shift for itself. The normal price of wheat is now higher than the normal price of juar, but such was not the case fifty or sixty years ago, and, as a consequence, land which could produce wheat but not juar, cotton or rice, was very lightly prized. The crop areas of the District at the first regular settlement were totally unreliable, and no statistics can be quoted as proving midisputably the changes in cropping which have occurred, but the evidence of the people proves beyond a doubt that a great deal of land which for merly produced very poor juar has now been put under wheat.

240

' Fifty years ago the rental and revenue of the District, then almost synonymous terms, were distributed and apportuned to the condition of agriculture at the time; the Maratha revenue officers were not slow to avail themselves of the industry of the cultivator whenever they could do so, and took all they could out of the best kharif ' villages, while the wheat tracts, then considered inferior, were let off lightly. There was competition for the former ' and none for the latter, and wherever this was keenest the 'assessment was very high The economic changes which ' the opening of the railway and the rise in the price of wheat 'brought about have been subsequent to the introduction ' of the 30 years' settlement, and were necessarily accom-' panied by no corresponding redistribution of rents, Where ' habits of industry had been ingrained into the cultivator's 'character, he found that the use in prices increased the ' balances available to him for comforts Where, as in the ' wheat tracts, he had always been lazy, the effect of the rise 'in prices was to make him lazier still. Thus it is that ' the greatest prosperity is to be found in the tracts which ' produce good kharif or good crops of both seasons, and the highest rents accompany the highest standard of comfort and the highest prosperity. Here and there individual alandlords breaking through tradition have raised the low ' wheat rents to a pitch equal to that paid on the best kharif ' lands; but, as a general rule, while the rents paid in the wheat tracts appear to be quite insignificant besides those paid in similar lands in Hoshangabad or Jubbulpore, the cultivators of those Districts would be completely staggered were they called upon to pay on their kharif cultivation which is subsidiary and therefore careless, the rental which in the Nagpur country is compatible with the greatest 4 prosperity.'

225 The following statement shows briefly the results of the settlement on the position of plot-proprietors and tenants —

	R	nte per acr		Incre	ase per c	unt
Class of Tenant	At the former vettle ment	Gefore reusson	After revision	Of column 3 over column 2	4 Over	
I	2	3	٠ 4	5	6	7
	Rs.	Rs	Rb	Rs,	Rs	Es
Mälik-makbuza .	1 4 6	126	1 5 10	-10	+19	+ 2
Absolute-occupancy	1 0 5	1 0 11	1 4 1	+ 3	+19	+22
Occupancy	0 12 11	0 13 6	1 0 3	+ 4	+20	+26
Ordinary	0 10 7	012 9	0 13 8	+20	+ 1	+29
All-round	0 12 10	0141	1 0 3	+10	+15	+26

226 The area held by malik-makbasas or plot-proprietors had increased from 80,000 to Analysis of rent-rates 100,000 acres during the 20 years' settlement by the resumption of revenue-free grants These were rented at a lower rate than the average, and the real rate of increase on the malik-makbasa area of the previous settlement was 19 per cent. The plot-proprietors represented the oldest ryots and included a large proportion of garden cultivators, whose plots had always paid a high revenue and could not bear much enhancement. Absoluteoccupancy tenants held 270,000 acres, the area under this tenure having decreased by 50,000 acres since the previous settlement. Their rental was increased by 20 per cent.. having remained unchanged during the term of settlement. Occupancy tenants held 559,000 acres as against 249,000 at the previous settlement Of the old occupancy area Mr. Craddock estimated that only 150,000 acres remained, 16

about 40 per cent, having lapsed from surrender, failure of heirs or merger; out of the present area therefore more than 100,000 acres had come under the occupancy tenure during the period of settlement, being mainly land held in ordinary ught at the previous settlement, with a small proportion of proprietary land. The transfer of so large an area from ordinary to occupancy tenure took place under the operation of the 12 years' rule of possession; acquisition of occupancy right by purchase having occurred only in a few isolated cases A large proportion of the land thus included was of inferior value, and Mi. Craddock estimated that the teal rise in the occupancy rent-rate during the 30 years' settlement was 17 per cent, and the addition of a 20 per cent, increment brought the revised rental to a point 40 per cent, above that of the previous settlement. The total occupancy rental was however less than the deduced rental. the figures being Rs 5'68 and Rs. 5 90 lakhs respectively. Ordinary tenants held 373,000 acres as against 521,000 acres at the previous settlement. Of the old area, about 400,000 acres had come under the occupancy tenure, while the ordinary land now included 170,000 acres broken up from waste. The remaining area must have been land previously held by proprietors and superior tenants Mr. Craddock estimated that the real increase in the ordinary rental over that of the previous settlement was also 40 per cent, the true enhancement during the currency of the settlement having been 32 per cent. In some groups proprietors had laigely enhanced the rents of ordinary tenants, as in Ramtek and the groups near Nagpur. On the other hand in Katol where the propiletors were largely drawn from the cultivating castes, tents had simply risen spontaneously in the letting out of new land and not as the result of direct enhancement. The rack-renting of ordinary tenants which had been prevalent in some of the northern Districts was however practically unknown in Nagpur. The revised District rent-rate was R. 1-0-3 an acre, showing an increase of 15 per cent over the rate of R, 0-14-1

prior to revision and of a6 per cent over the 30 years' settlement rate of R o-12-10. The moderation of the enhancement may be gauged from the fact that the percentage approved as justified by the increased value of produce was 50 per cent. The average rental was nearly equal, at a little over 17 annas, in the Nagpur, Katol and Ramtek tahsils, but in Umrei it was substantially lower, falling at R, o-13-10.

227. The area held by proprietors was 228,000 acres or
Home farm of the proprietors
of this 182,000 acres were recorded
as sir and 45,000 as khudkisht. The

str. Lind had increased by only \$\frac{1}{2}\$ per cent since the previous extilement, a certain amount of land having passed from this denomination through being let to tenants without special reservation of sir right; a condition of law which obtained from 1884 to 1889. The home farm is largest in the Katol tahsil, where it amounts to 18 per cent of the occupied area, and smallest in Nagpur. The sir land is always some of the best in the village and the average rental valuation adopted was R 1-4-9 as against the all-tound ryoti rate of R 1-0-2. The plan-gaidens of the Ramtele tahsil were taken as separate mahâls and recorded as held in sir right. They had been grossly over-assessed in former days and after a very careful inquity their rental valuation was reduced from Rs. 6:00 to Rs. 6:200.

228. The estimate of sreau or miscellaneous income wandle with studied moderation, and in all but about six cases was agreed to by the proprietors themselves. It amounted to Rs. 41,000 as against the aweinge ascertained receipts for some years of Rs. 57,000. The items composing it were fuel and timber Rs. 11,000, grass and grazing Rs. 15,000, fruit-trees nearly Rs. 7000, mahula Rs. 4700 and tanks Rs. 2700. The total area of forest and grass land in private hands was 313,000 acres and the assessment fell at 2 annas per acre. The profits have no doubt largely increased since the settlement

229. The following statement compares the assets of the Comparison of assets.

30 years' settlement with those obtained after rayision —

	At 10 years'	At solder ment of 1803-94
	Rь	Rs
Mälik makbūzas' payments and tenants' i entai	9,77,000	13,61,000
Rental value of home farm and land held on privileged and service tenure.	1,57,000	5,21,000
Stwar and miscellaneous income.	19,000	41,000
Total	11,53,000	17,23,000
Increase on assets at last   Actual . settlement   Per cent		5,70,000

230. The increase of the assets over those of the 30 years' settlement was Rs 5'70 lakhs or

Fraction of assets taken as revenue. 49 per

49 per cent. As the revenue fell at 75 per cent, of the assets at the

go years' settlement and at 56 per cent. on those existing before revision, it was clear that the adoption of a standard fraction below 60 per cent, would have secured to the State nothing of the uncarned increment which had already accrued and very little of that added at revision. The fraction of the assets to be taken as revenue was therefore fived at 60 per cent, and this fraction was not exceeded except where the revenue already existing fell at a higher proportion.

A fraction of over 60 per cent was taken under these circumstances in Eqvillages, while in 1289 the standard of 60 per cent, was taken, and in 729 less than 60 per cent, the reason in these cases being either to avoid too large a direct enhancement or to show consideration to a deserving

proprietor The largest proportion of villages assessed at the form or of the assets lay in the Nagpur tainst, being justified by the existing heavy assessment of the tainst, which had continued from native times. Fractions lower than 60 per cent were commonly taken in the Bhugart and Dongait all groups of the Ramiet tainst, where the villages are poor and small, and the assets unstable. In calculating the fraction of assets taken the payments of matik-makbhass are excluded, as on these the mallguzar is allowed only a drawback of from 10 to 20 per cent of the revenue. The revised matik-makbhasa payments were Rs. 136 lakhs, of which the drawback allowed to the proprietors was Rs. 12,500.

231. The land-revenue demand imposed at the commencement of the 30 years' settlement was

Enhancement of the revenue.

Enhancement of the Rs. 8 78 lakhs; it rose during the currency of settlement by resump-

tion of assignments to Rs. 8'98 lakhs and was enhanced by Mr. Craddock to Rs 10 58 lakhs including assignments, or by 18 per cent only. The net demand, excluding assignments, was raised from Rs 845 to Rs. 982 lakhs or by Rs. 1,37,000. At the 30 years' settlement the revenue fell at R. 0-12-0 per acre in cultivation and the incidence was now raised to R. 0-12-8. The revised demand absorbed nearly 50 per cent. of the true malguzarı assets and nearly qı per cent, of the mālik-makbūsa revenue or 60'4 per cent of the two combined. It fell at about 5% per cent, of the normal gross produce, cost of seed being deducted. The proprietary piofits left to the mālguzārs were Rs. 665 lakhs, as against Rs. 275 lakhs at the 30 years' settlement. If the cultivating profits of the home farm be included their income had more than doubled. The rental had been raised by Rs. 1.87 lakhs and against this the revenue was increased by Rs. 1.60 lakks including assignments, so that the cash income of the proprietors actually increased by Rs. 27,000. The increase in assets since the previous settlements was Rs. 570 lakhs and of this

Rs 160 lakhs or 28 per cent, only was taken in the enhancement of revenue

232. Besides the revenue the propiletors had to pay cesses At the 30 years' suttlement Cesses the road and school cesses were each levied at 2 per cent, and the postal cess at 1 per cent on the revenue. The Additional Rate of 2 per cent was imposed in 1878 as a contribution to famine expenditure, and the patwari cess was subsequently added at 32 per cent to pay for the cost of the Land Record Staff, the malguzars having previously been obliged to prepare annual records at their own expense Prior to revision the cesses thus amounted to 10 per cent on the revenue demand. At revision the road cess was raised to 3 per cent and the patwari cess lowered to 31 per cent, so that the combined cesses came to 11 per cent on the revenue. The road, school and postal cesses amounted to Rs 60,000, the Additional Rate to Rs 22,000, and the patwari cess to Rs 33,000 The Additional Rate was abolished in 1905 and the patwari cess in 1006, so that the burden on the propiletors was substantially lightened. In 1906-07 the demand for land revenue was Rs o og lakhs and for cesses Rs. 55,000.

233 The new settlement was introduced between the years 1893 and 1897; it was made Period and cost of for 20 years over the greater part settlement of two tabsils, and in the remainder

of the District for 17 to 19 years, so as to bring it to conclusion in rotation of tabsils. It expires in 1912 in Umrer, 1913 in Nagpur, 1914 in Ramtek and 1915 in Katol The expenditure on the cadastral survey and the settlement was Rs. 2.70 lakhs or at the rate of Rs. 81-9 per square mile. With the exception of Waidha, where a native Settlement Officer was employed, the expenditure on assessment will bear comparison with that of other Districts. The settlement was accepted by the people contentedly as an equitable and moderate revision of the Government's share of the produce of the land Though it was introduced under very unfavourable circumstances during a prolonged period of agricultural depression no abatement has been found necessary, and except in the famine year of 1900, the demand has been collected practically in full. The dates fixed for the payment of the two instalments of land revenue were February 10th and May 15th.

234. The District has no zamindari estates. At settlement, eight ryotwäri villages were Special tenures in existence and their number has now increased to nine. Two of these were resumed villages. formerly let on clearance leases, and the remainder were founded on land excised from Government forest situated in the Ramtek tabsil. About 2000 acres are occunied for cultivation in these villages and pay a revenue of Rs 1400. Four villages have been absorbed into civil stations and cantonments. Some gardens and fields situated within the municipal area of Nagpur were withdrawn from municipal management and transferred to the revenue department, the holders being made Government ryots Their area was 270 acres. The large Lendi tank on the outskirts of the city had been originally settled with the betel-vine growers of Hansanure; but for several years its management had been assumed by the municipal committee, who auctioned the fisheries The Dhimais allowed the tank to get very low and the pan cultivation suffered greatly. The management of the tank was now restored to the Barais on a revenue of Rs. 408 The betel-vine gardens in the Ramtek tahsil were recorded as held by the Barais in co-paitnership in sir right. These industrious communities had been much over-assessed in former days, and the assessments pressed more heavily now that the cost of the forest products necessary for the construction of their enclosures had so much increased. Their rental was reduced from Rs. 6300 to Rs. 5200 Nearly 37,000 acres have been sold under the Waste Land Rules, and now form 29 separate villages and

3 mahals. These sales were discontinued in 1877 by an opportune order. The object in view in making them was the colonisation of waste land, but in several cases, as in that of some teak-covered hills in Umier, no cultivation was attempted by the purchasers, who easily recouped themselves from the proceeds of the forests. Ten plots had been let out under the Clearance Lease Rules, and in nine of these. proprietary rights had been earned by the lessees or their representatives, so that they became malgazari villages In the icmaining case (Gargoti), the lease was resumed and the village settled rvotwar: Inferior proprietary rights exist in & lew villages of the Mohpa estate, formerly belonging to a Muhammadan family but now alienated, and in the Bhiwapur estate, held free of revenue Protected status was conferred at settlement on the thekadars of eight villages in the Bhiwapur estate and those of the Bhousla and Gujar families

235. About 224,000 acres consisting of villages or shares
Revenue-free and quittent grants,

or patially revenue-free in 1006-07.

the amount of revenue so assigned being Rs. 79,000. This area consists principally of the old private estates of the Bhonsla family and their relatives, which they were allowed to retain The Bhonsla estate, held by Rājā Raghuji Rao and Kunwar Lakshman Rao, consists of 35 villages in Nagpur tahsli, 9 in Rāmtek, 3 in Kātol and 20 in Umrer The estate of Naoloji Rao Gajar, the great-grandson by adoption of Tukā Bai, daughter of Rājā Mudhoji, consists of 15 villages in Rāmtek and 6 in Umrer. Another member of the family, Krishna Rao Abā Sāhib Gajar, holds a grant of 11 villages in the Umier tahsii The villages of Kodāmendhi and Khandāla in Rāmtek belong to Krishna Roo, the descendant by adoption of Bānu Bai, daughter of Rāghujī II. The Sike family hold five villages free of revenue sewitewatewāwārs family four.

<sup>3</sup> See paras, 131 and 389 of Mr. Graddock's Report

226. The total area included in holdings in 1905-06 was 1.600,000 acres and was dis-Statistics of holdings. tributed as follows --- An area of 180,000 acres or 11 per cent, of the total consisted of \$\tilde{v}r\$ land and 88,000 acres or 51 per cent of khudkāsht land, mālik-makhūsas1 held roz.000 acres or 63 per cent of the total area, absolute occupancy tenants 258,000 acres or nearly 16 per cent., occupancy tenants 544,000 acres or 33 per cent, ordinary tenants 422,000 acres or 26 per cent, while 24,000 acres or 11 per cent of the total were held rentfree from the proprietors or in hell of service. Since the settlement the holdings of occupancy tenants have decreased by 15,000 acres and those of absolute occupancy tenants by 11,000 acres, while ordinary tenants hold an increased area of 40,000 acres

Plot-proprietors

### CHAPTER IX.

## GENERAL ADMINISTRATION.

# (F. DEWAR.)

237. The Deputy Commissioner, who is also District
Administrative Subvisions and Staff.

Administrative Subvisions and Staff.

Administrative Subvisions as an anctioned staff of four Assistants. But the work of the head.

quarters District and of the city has in late years increased and at present the staff consists of three Assistant Comissioners of the Indian Civil Service, one of whom is under training, and of four Extra Assistant Commissioners, including the Excise Assistant who acts in Wardha District also. At Kamptee, where there is a large town as well as a cantonment, the Cantonment Magistrate acts also as Subdivisional Magistrate The District is at present divided into four tabsils, which are grouped as three subdivisions under Assistants who act as Sub-divisional Magistrates. But three of the tahsils are unmanageably large and sanction has recently been obtained to the institution of a fifth tabsil, with headquarters at Saoner town, which will be inaugurated as soon as its court-houses can be built. The Nagpur tabsil contains 550 revenue villages, of which 142 are uninhabited, Rämtek 560 with 119 uninhabited, Umiei 678 with 220 uninhabited, and Katol 404 with 134 uninhabited. The new Saoner tabsil will contain 271 villages excised from Nagpur, Ramtek and Katol. The total number of separate mahāls1 was at settlement 2756. Each tahsil has a tahsildar and a naib-tahsildar, and at present for the assistance of the tahsildars in plague-prevention there is a staff of one Plague Superintendent and four Deputy Superintendents or naib-tahsildars. The civil court staff of the District consists of a District Judge, an Additional

Villages or parts of villages separately assessed to revenue

District Judge, and 3 Subordinate Judges. There are also Small Cause Court Judges at Nagpur and Kamptee The former has a Registrar as his Assistant There is ordinarily one munsiff for each tabsil, but owing to the pressure of work at Rämtek and Katol two munsiffs in each place have been appointed The tabsildars are Additional Judges in the courts of the munsiffs tor civil suits involving landlords and tenants. The work of the criminal courts in the District is very heavy, and cannot be overtaken by the stipendiary magistrates In the city two Honorary Magistrates have first class powers and separate courts, and there are also four benches, one with first-class and three with second-class powers. In Kamptee there are two Honorary Magistrates At Ramtek, Saoner, Katol and Kalmeshwar there are benches, and two Honorary Magistrates sit singly in the towns of Umrer and Mowar. The Divisional Forest Officer has charge of the forests of both Nagpur and Wardha Districts. All the Divisional Officers of Nagpur Division have their headquarters at Nagpui

238. At the 30 years' settlement no regular land record staff was appointed for the Dis-Land Record Staft trict, the male uzais or villagelandlords being held responsible for the rendition of village papers showing the names of tenants, the area under each crop, and the rents collected. This arrangement did not work well. The returns filed by the malguzars were untrustworthy and largely understated the rent-collections, and they were written up by temporary clerks after superficial enquiry from the people without actual field-to-field visitation. The patwari system was first introduced in 1884, when 259 patwaris were appointed for the District and a patwān cess was levied from the malguzars at 5 per cent, the tenants contributing at the rate of a kuro (20 lbs ) of grain per holding. At last settlement it was found to be necessary to add II more charges and to raise the total number of patwars to 270, of whom 60 belong to the Não pur tabsil, 66 to Kātol, 67 to Umrer, and 68 to Ramtek There are no hereditary natwarts in the District. At settlement the rate of the cess on the malguzars was reduced from 5 to 31 per cent and that of the tenants was fixed at 3 pies per rupee of rent. The patwaris collected their own dues from the tenants and received the remainder of their pay from the treasury But this arrangement was abolished last year with the remission of the patwaii cess and the patwaris are now paid from Provincial revenues like other Government servants. The abolition reduced the taxation of the District by Rs. 33,000 per annum. The supervising staff consists of a Superintendent of Land Records and an Assistant Superintendent, with 12 Inspectors. The headquarters of Revenue Inspectors are at Pardi, Bori, and Kalmeshwar in Nagpur tahsil, at Mansai, Khapa, and Thaisa in Rämtek, Pipla, Jalalkhera, and Kondhalı in Katol, and at Kuhi, Belä and Bhiwapur in Umrer tahsil. Each has on an average 23 patwaris to supervise in 185 revenue villages. In each patwari's circle the average number of villages is q. The pay of patwaits is usually only Rs 132 per annum and as the work is hard and now continuous throng nout the year, this is not sufficient to attract capable young men to the service. The work has developed into two branches, one being that of returning seasonal crop reports for the Agricultural Department, which is fairly well done, and the other being the maintenance of land tenure records for the use of the civil and revenue courts, a responsible business not very effectively performed

239 The record of serious crime in the District is not a heavy one. During the ten years ending with 1966 the average number of persons convicted of offences affecting human life was 10, of robbery and dacotty 12, and of prevous hurt 21. But offences against property are exceedingly numerous. The figures for house-breaking and their, averaged 274-annually from 1900 to 1905. The average annual numerous

of cuminal cases disposed of during the 10 years ending with 1906 was 4096, of which 1656 were cognisable by the nolice and 2440 non-cognisable. These are large numbers. Many of them are cases under the Police Act and the Municondities Act, due to the necessity of enforcing a fair standaid of decency and sanitation in the towns, and many also are due to the nuisance of cattle-trespass, which is very prevalent in both towns and villages Except in the city and on the railways there is no great amount of professional crime, but there is much of what may be called domestic crime. Most of the murders are wife-murders or husband-noisonings and cases of suicide or attempted suicide on the part of women are numerous. This tendency is due chiefly to the unsatisfactory social arrangements of the Koshti caste, which is very numerous in the District A Koshti usually has several wives, and many children, a custom imposed upon him by industrial conditions which force his hand-foom into competition with the machine-loom. He must have many helpers and his house becomes rather a factory than a home. The custom has other unsatisfactory results but those which come most often before the courts are the assaults and small riots between individuals or parties which arise from quairels about the women Cheating in marriage contracts is common and the elopement of married women more common. Agrarian riots also are numerous, and for this fact the only apparent reason is that the civil courts and their emissaries do not carry weight in the villages It is probable that the impending revenue settlement and its local enquiries into rights and possession may reduce the number of recrudescent agrarian disputes. Civil litigation is heavier and more intricate than in most other Districts and parties are, as a rule, in contested cases represented by pleaders whose services on moderate fees are readily available. Although Nagpur is an important trading centre, commercial suits are few, as parties prefer to settle them out of court by means of punchāyats. The bulk of the litigation is confined to petty suits below Rs 100 in value. Mottgages generally provide to the sale and not for the foreclosure of the mottgaged perty. In 1862 only 6583 suits were filed, but the number of institutions 10xe steadily till it reached 21,606 in 1887. Since then there has been a gradual decline and in 1906 the number of suits fell as low as 9,579, the lowest figure for the District since 1868. The decrease in linguistion is attributed partly to the improved prosperity of the middle and labouring classes owing to the industrial development of the District and partly to the passing of the Tentancy Act of 1898, whereby the right of transfer of land was materially curtailed.

210 The Deputy Commissioner has been since 1904 the District Registrar Under him Registration there are seven registration offices. at Nagput, Kamptee, Ramtek, Umrer, Narkher, Katol, and Saoner, each in charge of a sub-registrar who receives a fixed salary and also a commission of 3 annas, and in the Nagpur office 5 annas, on each document registered. The number of documents registered annually was over 5400 in 1890-91, but it fell below 4100 in 1900-01 owing chiefly to the operation of the revised Tenancy Act. In 1903 it had fallen to 3,900. The average receipts from registration for the decade ending with 1900-01 were over Rs. 21,000, the maximum being Rs. 26,000 in 1895-96, but they fell to Rs 18.000 in 1904.

241 The following statement shows receipts under the Statistics of revenue of the decade ending with 1900-1901 and for four subsequent years separately:—

Year.	Land Revenue	Casses.	Stamp-	Excise	Forests.	Regus- tration,	Income Tax	Total
1902*03	9,65,823 10,33,836 9,62,831 10,27,127 9,97 04	83,731 7 597	2,77,025 2 - 1,5 0 2,57,205	3.52 137 1.21,162 5.19,591 5.671706	70,037 93,416 1,03,517	21,399 17,585 16,517 18,109 19,846	69,491 69,952 71,924 67,474 72,981	17,93,110 19,13,613 19,02,017 20,"3,675 21,35,874

The cesses of the first period are amalgamated with thland revenue. Since 1904-05, they have disappeared owing to the abolition of the patwari cess and of the additional late. There remain only the school, toad and post office cesses, very small in amount, which go to the District Council. The land revenue also is now small, out of proportion to the agricultural profits, but it will be revised within a few years. The amount of income tax is exceedangly small for so large and prosperious a District, and it also stands in need of revision. On the other hand the income from forests has been steadily improved and the excise revenue has been very greatly added to

242. Up to the end of 1905-06 the supply of alcoholic

Excise

liquoi for the District was from three distilleries at Nägpur, Kåtol

and Umrer From these liquor was issued to the retail vendors through the medium of 15 bonded warehouses. The Någpur distillery supplied the warehouses of Någpur and Rämtek tahsīls, while Kātol and Umrei had their own stills The rates for liquor issued from the Nagpur warehouse were Rs. 2 per gallon for liquo: 100 to 120 under-proof and R 1-15 per gallon for 45° to 47° under-proof. At Kātol and Umrer the rate was R. 1-5 for liquor 500 to 520 underproof, the only strength of issue permitted. The manufacturing contractors were allowed no contract for the retail vend of liquor and the cost piece allowed to them was one rupee per gallon of 100 to 120 under-proof, and nine annas for the 45° to 52° under-proof issue From the beginning of the year 1906-07 the manufacturing contract was given to a Madras company The cost price fixed was 15 annas per proof gallon and the rate of duty was changed to Rs 3-2 The issued strengths were fixed at 25° and 60° under-proof, and in the latter part of the year a strength of 45° under-proof was also introduced. Meanwhile the number of retail year shops was greatly reduced. There were in 1904-05 no less than 418, there are now only 210. But the change of

system and the increased consumption of liquor have very greatly added to the revenue receipts. The consumption of foreign liquor is fairly considerable in Nagpur itself and in Kamptee town. The only other form of alcoholic liquor used in the District is tari, the revenue from which is very small. The number of shops for its sale has recently been reduced from 133 to 86

The consumption of opium is large and is increasing In 1904-05 there were 75 permanent and 11 temporary shops. the yield of revenue being Rs. 1,19,415. But the number of shops was reduced in 1906-07 to 54 with permanent licenses and one with a temporary license. The consumption of gama is also on the increase. The number of shops in 1004-05 was 77, since reduced to 56. But 11 shops for the sale of charas are now to be opened in the principal towns.

District Council and Local Boards.

243 The District Council of Nagpur consists of 7 members nominated by Government and of 15 elected members Under it are four Local Boards, one for each

tahsil Those at Nagpur, Ramtek, and Katol consist of 3 nominated and 10 elected members, and that at Umrer of 3 nominated and 11 elected members. The average income of the District Council for the decade ending with 1901 was only Rs 76,686, the principal sources of revenue being local rates Rs 45.151, ferries Rs 3975, cattle pounds Rs. 9573, and contributions from Provincial revenues Rs. 4199. In recent years the income has increased to about Rs 1,10,050, partly owing to better collection of the rates since the famines, partly to a steady increase in the income from cattle pounds, but chiefly from supplementary grants from Provincial revenues Most of the Council's expenditure is on schools, on roads, and on the upkeep of cattle pounds and dispensailes. For these and other necessary objects its funds have long been inadequate and they are from time to time supplemented from Provincial revenues. It is unfortunate that the local rates are exceedingly small and that the Council has no source of revenue, except perhaps the cattle pounds, which can be developed. Lack of funds has hitherto prevented the employment of an efficient staff for the supervision of its roads and buildings, but with the appointment of a Local Fund Engineer and by the aid of an enlarged grant from Government it is hoped that better progress will be made The proposal to place all village markets under the control of the Council also promises to increase its resources and its work Meanwhile very considerable improvements have of late years been effected, chiefly in the schools, Six large new buildings have been elected, the most considerable being the schools of Narkhei and Gumgaon, and the pay of teachers in the primary schools of the villages has been substantially increased. Most of the funds for road improvement have hitherto been handed over to the Public Works Department for expenditure on the main lines of traffic. The small sum handled by the Council is insufficient for the upkeep of its many roads, but a useful scheme of roadside arboriculture has recently been adopted. The District stands in need of dispensaries, and the Council has recently received two charitable donations which will be utilised on new dispensary buildings at Kuhi and Pärseoni. The work of the District Council and of its Local Board members has for many years been excellent. In every part of the District gentlemen of good standing and education come forward readily to undertake public duty The development of local self-government in the villages appears to depend merely on the development of the sources of revenue and on the appointment of an engineering staff

244. Besides the Nagpur City and Civil Station, which are practically two municipalities, Municipalities and the town of Kamptee, which is administered by a cantonment committee, there are six municipal towns in the District-Umrer, Ramtek, Saoner. 17

Khāpa, Kalmeshwai and Mowār. Kātol, the headquarters of a tahsil, was a few years ago notified as a town area and is now on its way to become a municipality

245 The area of Nagpur City and Civil Station is now above 20 square miles. In the Nicom census of 1901 its population was ascertained to be 127,734 souls, of whom 17,328 resided within the Civil Station The municipal committee consists of 30 members, 10 of whom are nominated by Government while 20 are elected by the townspeople. There is also, for the administration of the Civil Station, a special standing sub-committee, consisting of a elected and 5 nominated members, which has separate powers and is mactically a separate municipal committee. The income of both for the decade ending with the year 1901 was Rs. 328,000, but the net income now, apart from the loans which are continually necessary, is just over four lakhs. Most of this comes from the octror tax which is closely administered and which has considerably increased with the expansion of trade in spite of the disorganisation caused by several severe epidemics of plague. But there are other important sources of revenue. The following table shows these and their growth .---

					189 <b>2-1893</b> Rs	1905-1905 Rs,
Octroz					1,67,000	3,25,000
Vehicle tax	***	•••		***	***	21,000
Conservancy	cess	•••			31,000	36,000
Water-rate		•••			27,000	39,000
lncome from	fines und	er Spe	cial	Acts.	5,000	9,000
Income from	markets,	land,	&c.		44,000	85,000
1	lotal gros	s inco	me	•••	2,74,000	5,15,000
Deduct refus	ids, chiefly	y of oc	troi	tax	43,000	1,12,000
	N	et mc	ome		2,31,000	4,03,000

The latter sum is now quite inadequate for the growing needs of the city but the taxation amounts to only about



AMBAJHERI TANK NAGPUR

Rs. 2-5 per head of population and can be considerably enhanced. Most of the revenue is expended on the water-supnly, on conservancy arrangements, on drainage, street-lighting, and the improvement and maintenance of the roads Small sums are contributed also, to medical institutions and to schools. Of regular annual expenditure the chief items are those of Rs. 86,000 on conservancy, Rs 29,000 on the upkeep of the 30 miles of metalled streets, and Rs 26.000 on the maintenance of the present water-supply. But a large part of the outliv is expent and pregular and depends on the receipt of loans from Government. With these and savings from the annual outlay much has been done in the past to extend the water-supply, which in 30 years has called for 9 lakhs of special expenditure. It is now quite inadequate and a new loan will be needed for the construction of a large second reservoir The drainage of the city is a second problem which is under consideration. Since 1883 only Rs. 74,000 have been spent on this necessary branch of town-service, but a comprehensive scheme of drainage is now being formulated, and for the application of this another loan will be needed. In recent years, with the help of a special loan, much has been done towards the widening of lanes into streets, and the municipality has acquired considerable areas of land on which good houses are being built by private lessees. All the markets need extension, and for this purpose also a loan has been taken The street-lighting is not yet good (it costs only Rs. 10,000 per annum), but this will be greatly improved if electric lights are provided from the power-house of the company which has contracted to lay tramways through the main streets. In recent years the city has undertaken several other enterprises. A fine Town Hall and Library have been built and a cotton market has been established near the railway station. Three steam fire engines have been bought and equipped and telephonic communication is being instituted. The prevention or restriction of the periodical epidemics of plague has also, at considerable expense, engrossed

the attention of the municipal committee. In brief, the city is in a state of rapid growth. Its finances do not as yet keep pace with its growth, and its taxation should speedily be doubled. The branch of taxation which at present is most inadequate is the conservancy case. The Civil Station is more heavily taxed than the city and it is in some ways better equipped than the latter, but its present income of Rs. 70,000 is not sufficient for its growing needs. A large part of the Station is the property of Government and when all the new Government buildings are completed and their grounds laid out the appearance of the place will be very greatly improved.

The largest of the outlying municipal towns is Umier, which has a population of Umier 15,943. Its committee consists of 4 nominated and 10 elected members. For the decade ending with 1901 the average income of the town was Rs 17,400 but by 1906-07 it had risen to Rs. 26,000. Most of this is derived from an octroi tax but there are receipts also from conservancy cess, cattle-registration fees, cattle-nounds and the fishing rents of the large lake round which the town lies The incidence of taxation is only one rupee per head of population. Much of the municipal revenue is spent on the schools, comprising an important middle school which will probably be converted into a high school, and its three numary branch schools. These are well maintained. The conservancy arrangements have recently been improved, a small veterinary dispensary, one of the few in the District, has been established, and a new and enlarged market-site is being equipped. The committee also has acquired by purchase the whole of the town site from the malguzar, H. 'M. Malak of the Mehdibag institution. This gentleman has lately presented the town with two new buildings one for use as a rest-house and one as a library. Umrer is a charmingly picturesque town, its finances are in flourishing condition, and its trade is certain to increase largely now that it has secured railway communication with Nagpur Besides being a centie of agricultural and general trade it possesses an important weaving industry

247 The town of Ramtek is noted chiefly for its picturesque situation on the side of a Ramtek steep hill which is crowned by a fort and temple buildings Its municipal committee consists of 11 members, of whom three are nominated by Government The average annual revenue of the decade ending with 1901 was only Rs 8,400, although the population in that year numbered 8,732. But by 1906-07 the income had risen to Rs 14,600, chiefly from the octroi tax, but also from a conservancy cess, cattle-pounds, and market-dues The chief objects of expenditure in recent years have been the schools, the roads and drains, markets and slaughter-houses, and conservancy. A good dispensary is maintained which is now being extended at the cost of a merchant who has manganese mines in the vicinity. The committee has lately introduced street-lighting and is considering plans for the extension and improvement of its market. A light railway between Kamptee and Ramtek is on the eve of completion and in the near neighbourhood a very large irrigation lake is being constructed. The town has important manganese mines near it and is likely in a few years to become a busy centre of commerce. At present its chief local industry is the cultivation of the ban leaf

248. The town of Khāpa les at the western end of Ramtek tahsil but is only 5 miles from Saoner and will soon be included in the new Saoner tahsil. In 1901 its population was 7615. The municipal committee consists at present of 9 members all of whom are nominated by Government. For the decade ending with 1901 the town's average income was only Rs 6500, but this has now increased to Rs. 11,600, half of which is derived from an octroi tax. The other sources of revenue are cattle registration fees, cattle-pound

fines, and market-dues, and the incidence of actual taxation is only 14 annay per head of population. The chief objects of expenditure are conservancy, education, reads and drainage. Street lamps have recently been introduced and a slaughter-house is being built. It is also proposed to build a solid masonry approach from the town to the Kanhan river. Most of the inhabitants are hand-loom weaters.

249 Saoner town hes at present within Nagpui tabsil, but it is soon to be the headquarters Saonei of a new tabsil Its population in 1901 was only 5821, but it is a prosperous centre of the cotton industry and is rapidly extending. The nunicipal committee consists of 3 nominated and 10 elected members. For the decade ending with 1901 its income was only Rs. 2800, but by 1906-07 this had risen to Rs. 10,400, derived from a house-tax, hazar dues, and cotton-market dues The incidence of taxation on the townspeople is only 11 annas per head. The chief object of expenditure has hitherto been the cotton-market, on which the prosperity of the town mainly depends, and improvement in the conservancy and additions to the school buildings are now contemplated. It is probable, that within a few years Saoner will become an important railway centre as well as the headquarters of a tabsil

ago. Mowar is a town of app inhabitants in the extreme Mowar. Consists of a nominated and io elected members. Its average annual income for the decade ending with 1901 was only Rs. 3600, but by 1906-07 this had increased to Rs. 6600, although the incidence of taxation then amounted to 12 annas per head. The town lives chiefly on its large market and on the improvement of this and the construction of a large sarar, or native rest-house, considerable sums are now being expended. In the past the chief municipal undertaking was the construction of a large

earthen dam to prevent the flood-water of the Korlär over from sweeping through the town.

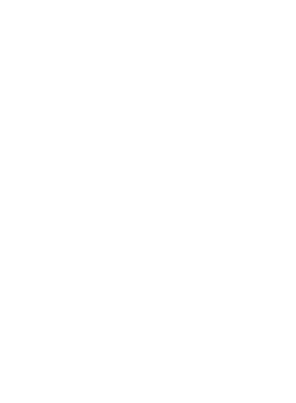
- 251. Kalmeshwar is a small town of 5340 inhabitants lying 12 miles to the west of Nag-Kalmeshwar our city. Its committee consisted of 7 members, two of whom were nominated, but it is now being reorganised. The average annual revenue of the town for the decade ending with 1901 was only Rs. 4400 but by 1906-07 it 10se to Rs. 7000, derived chiefly from a house tax, bazar dues, a conservancy cess, cattle-registration fees, and cattle-pound fines. The incidence of taxation is less than a annas per head. Most of the municipal revenue is spent on the schools, but the conservancy arrangements have recently been improved, and private subscriptions have been received for the foundation of a dispensary 252. Kātol, as has been noted, is not yet a municipality,
- Asia, as has been noted, is not yet a municipality.

  Katol. but for three years it has been mittee. Its population was 7313 m 1901, and is steadily increasing. Its first annual income in 1905-06 was Rs 4761 but this has now increased to Rs 7176, derived chiefly from a house tax, a latine-cess, and fees from its weekly bazar and its cotton-market Hitherto most of the fund has been spent on the construction of an excellent cotton-market, but efforts are now being made to improve the conservancy, the lighting, and the roads. A town hall has already been built from private subscriptions. The town is an important centre of the cotton trade and is making very rand progress
- Total met municipal income of the District, excluding that of the cantonment town of the District.

  Total municipal income of Kamptee, is now about 5 lakhs of rupees, of which about 3½ lakhs accrue from taxation of the townspeople. The town population was in 1991, 183,297 or 24 per cent, of the population

of the District. It has, in spite of severe epidemics of plague, increased considerably since 1901, but even if the figure of that year be accepted the incidence of municipal taxation is less than Rs. 2 per head of population.

251 There are in the District many very large villages become more and more which Village Sanitation. insanitary as they develop in size. Three of these in the Katol tahsil, Mohna, Narkher, and Kelod, have been brought under the operation of Village Sanitation Act, the first in 1905 and the others in 1906. They draw revenues from a house tax from cattle registration fees, from market-ducs, and from brokers' beense fees. In 1906-07 the income of Mohpa was Rs 1955 and of Kelod and Narkher Rs. 1785 and Rs. 2328 respectively This income is spent chiefly on conservancy, and on the improvement of the wells and roads In Narkher especially the income is being steadily increased to meet necessary expenditure. In seven large villages the Mukaddam Rules of the Land Revenue Act have been for some years in force. These are Bori, Patansaongi, Bela, Bhiwapur, Kuhi, Kondhali and Sawargaon. Operations were begun in Bhiwapur, Kuhi and Sawargaon in 1888 and at Kondhali in 1902 The sum raised annually varies from Rs. 260 to Rs. 650 but in most cases the assessments have recently been increased. During 1906-07 the Mukaddam Rujes have been applied to 15 other villages-Nand, Talegaon-Kamptee, Khairgaon, Jalalkhera, Ridhora, Belona, Paradsınga, Makardhokra, Mandhal, Warora, Veltur, Kodamendhi, Parseoni, Maunda, and Takalghat. The first assessments are all very small, and provide funds only for the pay of a small conservancy staff, but the operations appear to be popular in prosperous villages and the local revenues can conveniently be increased from year to year to meet the expense of new wells Hitherto it has been usual for the District Council and the fashil officials to levy special subscriptions for the improvement of water-supply, but the exaction of comparatively



GOVERNMENT HOUSE NAGPUR

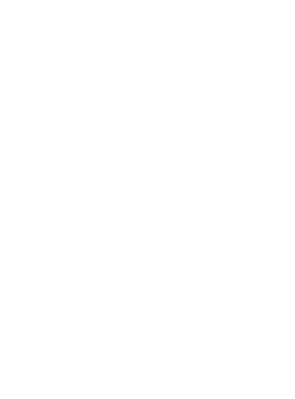
large contributions from a few individuals is often difficult and the procedure can be regularised

a55. Nagpur, as headquarters District of the Provinces,
Pablic works, possesses a large number of Government buildings But owing to the
powerty of the Province in the past few of these are of any
architectural importance. The following is a short list of
the principal ones —

				Date of	Cost
					Rs.
Kamptee Church				1832	46,000
Old Secretariat office				1860	1,56,000
Nagpur Church	••	•••		1861	27,000
Museum		٠.		1871	31,000
District Court	••	•••	•••	1873	1,04,000
Mayo Hospital		•••		1874	43,000
Government House			•••	1891	1,15,000
Law Courts				1893	1,75,000
Victoria Technical Institute	,	•••		1906	1,60,000

Of these the Hospital and the Museum have most architectural pretensions, but Government House is a commodious building on a magnificent site, and the Victoria Institute. though built of red brick, is an imposing editice. The development and extension of the Province has necessitated considerable outlay on new buildings. Of these the finest is the new Secretariat building, now nearing completion. which is to cost eight lakes of tupees, its ground-plan is a quadrangle enclosing a spacious open courtyard. The building is double-storeyed and the entire facade is of massive stone masonry in alternating courses of black basalt and grey sandstone. The exterior is enriched by a projecting comice and carved work in grey sandstone, and a very effective screen of pierced and carved stone-work forms a filling between the main piers and shades the windows from the direct rays of the sun. The new Law Courts are of similar design and construction but are singlestoreved Several other offices are being built and in the city a new central police Station-house, costing Rs. 41,200, is nearing completion In the Civil Station a large area of land has been taken up by Government, which has been laid out with roads, public gardens, and bungalow sites Numerous new houses have been or are being built on this area, which also contains the new Central Provinces Club building on an excellent site above the race-course. The District is very poorly provided with roads. The Nagpur-Jubbulgare road alone can be described as complete. This was constructed before the days when railway construction appeared to justify cessation of road-building. It contains at Kamptee over the Kanhan river one of the finest masonry bridges in India. It was built in 1870-74 at a cost of 124 lakhs of rupees, The road is bridged throughout but in recent years its width and depth of metal for 20 miles from Kamptee northwards has not been sufficient to stand the wear and tear of its heavy traffic in manganese ore and timber. This will now, however, be relieved by the Kamptee-Ramtek railway. There are four other fauly good roads radiating from Nagpur One is the Great Eastern Road to Bhandara, another the Nagour-Chanda road through Umrer, another the Nagpur-Katol road, and the fourth is the Nagpur-Saoner road which branches at Saoner into two lines i unning to Chhindwaia and Betal. The two last are each year badly cut up by their heavy traffic. All four are only partially bridged and only partially provided with causeways and culverts. Improvements are now in progress, but new roads are needed in every part of the District, especially in the south and west. Of the new routes projected the most important is the direct highway from Nagp to Amraoti via Kondhali, The Irrigation Department has for some years been at work on schemes for the District. The most important of these is the project for damming the Sur river near Ramtek in order to provide a very large irrigation lake. This work is now being rapidly pushed forward and when complete will add greatly to the resources of the District. The projected

VICTORIA TECHNICAL INSTITUTE, NAGPUR



ew municipal reservoir for Nagput city will be another fine lake.

256. The strength of the police force in the District is 412
officers and men, and there are also
53 officers and men helongring to the
railway police. The details of the District force are t

District Superintendent, a Assistant Superintendent, a Deputy Superintendent, 4 Inspectors, 15 Sub-Inspectors, 3 Sergeants, 120 Head Constables, 766 Constables, 2 Daffadāis, 20 Sowārs. The following towns are specially provided with separate forces -Nagpur and Sitabaldi 153, Kamptee 83, Umrer 34, Ramtek 27. The annual cost of the force is Rs. 1,53 000 The remuneration of the men has lately been increased but as rates have risen greatly in all other employments it is still very difficult to procure local recruits, and most of the members of the torce are men from Upper India The city and Civil Station at present are divided, for purposes of watch and ward, into 30 circles, and the men are scattered among a large number of large and small posts But steps are being taken to concentrate most of the force in three convenient centies. The whole District is divided among 11 Station-houses and 32 outposts within Station-house circles This arrangement also is now being revised and there will soon be 22 Station-houses, and few or no outposts

257. At the time of the 30 years' settlement the owners of villages were made responsible for the local watch and ward, and the kotwärs or watchmen were left in an undefined position as their servants. They were remunerated partly by the cultivation of service-land held from the malguair, and partly by dues of grain paid by the villagers. They received also the hides of cattle dying within the village. The post was usually regarded as an herothery one and on the death of an incumbent both duties and perquisites were subdivided among his descendants. This arrangement was not without its advantage, for there was always some kotwär available.

tor duty in the absence of others. Its disadvantage was that subdivision led to slackness of discipline and in case of defaultit was practically impossible to fix responsibility. Accordingly at last settlement the system was revised. One kotwar only was selected for each village, or in the larger places, for each block of 50 houses, and the remuneration was restricted to him. The result of the change was a reduction of the number of kotwars from 5398 to 2142. The payments in kind were commuted into cash payments, the value of land held from the malguzar being deducted from his contribution. The following figures show approximately how the remuneration is now made up.—

Number of kotulars	From milguzārs Cash   Service land		From tenants Cash	From sales of	Total.
	Rs	Rs	Rs	R <sub>b</sub> ,	Rs.
3113	11,000	12,900	49,000	1000	82,900

The average amount received by each man is less than Rs. 39 per annum. This is but small pay and the work becomes heavier each year as. District administration becomes more thorough, so it is not surprising that the kotwars, most of whom are Mahais, are as a rule discontented, and do not usually render good service. In the neighbourhood of the towns many of them supplement their small incomes (which are about half the earnings of a female factory-hand) by acting as brokers in the cattle-markets or by dirving a retail trade in fruit. The impending re-settlement of the District will probably occasion a further revision of the system

a58. Nägpur has a Central jail of the first class under the charge of a Superintendent, which is an officer of the Indian Medica Service. It has accommodation for 1389 piisoners, including wards for 111 females and 30 Europeans. The daily average number of piisoners for the past ten years has

been:-1807, 1268; 1808, 1086, 1899, 807, 1900, 1032, 1001, 1007, 1002, 049, 1003, 671; 1004, 709, 1905, 649, 1906, 636 The number has gone down year by year, and the chief reason for the satisfactory decrease is the prosperity of the District Of late years crops have been satisfactory and there has been a very steady demand for labour for the cotton factories, the manganese mines, and for the construction of railways, roads, buildings, and impation tanks During the past ten years there have been 499 literate convicts, of whom 188 have been Government scivants The cost per head of dieting the prisoners was in 1897 Rs. 41-6-1 and in 1001 Rs. 15-2-0, but after that year a considerable reduction was effected and in 1906 it was only Rs. 23-2-6 In the last year the total cost of maintaining each prisoner was Rs oa, but the average wage value of the work done by those who were at work was Rs 140 main industry of the jail is the printing of Government forms There are 30 presses at work. The other profitable industries are carpet-weaving and upholstering in cane and bamboo A comparatively small amount of stone-breaking and aloe-pounding is done also, chiefly as a punitive form of work. There is an excellent gaiden and the sanitary condition of the jail is remarkable. It is one of the most sanitary and industrious parts of Nagpur city

sanitary and industrious paits of Nagpur city

259. The following statistics show the progress of education to the last three years—
2905, 193 schools, 13,788 scholars,
2906, 189 schools, 14,907 scholars; 7907, 193 schools, 14,296
scholars. The headquarters of the District, being also the
headquarters of the Province, contains several of the leading
educational institutions, vine., 2 aided colleges, containing
168 pupils; a law class with 23 pupils, the Victoria Technical Institute (which houses the Agricultural college and
advanced science classes), a Normal school, with 80 students
and others. The District contains a Government Highs to col
at Kamptee with so and 174 bows in the High an middle

departments respectively; 3 aided high schools in Nagour with 412 High school pupils, and a small unaided Bengāli High school. Of the aided High schools, one is attached to the Hislop college under the management of the United Fiee Church Mission, while the Neill city High school and Patwardhan High school are managed by committees. There are in the District 4 English middle schools under municipalities, at Ramtele. Umrer, Saoner, and Kalmeshwar, and one at Katol under the District Council; these total 332 scholars And there are also to aided English middle schools, under either missions or other bodies, one important one being the Anjuman school These contain 841 scholars. There are 15 10 Nagpur. vernacular middle schools, 6 of which have training classes, but others also prepare a few candidates for the Teachers' Certificate Examination Primary education is represented by 131 schools containing 8967 scholars, which gives an average of 68 per school. The majority of these are in villages, but there is a certain number of small private schools in the city, mostly aided by small grants. These are under departmental inspection, but on the whole are not as efficient as the iural schools, which are under the management of the District Council Under the head of female education there are 16 girls' schools with 867 scholars. There are also an English middle and a vernacular middle school for girls, supported by the Free Church Mission, and containing 30 and 124 girls respectively. Out of the total of 14,236 scholars, the numbers under various stages of instruction in 1906-07 were as follows -- 200 were in receipt of collegiate education, 4043 of secondary, 9834 of primary education and 50 were in special schools. The percentage of children under instruction to those of school going age was 46.6 in the case of boys, and 36 of girls. The former is a high figure and is partly due to the extent of education in Nagpur city, where there are 45 different educational institutions. In the census of 1901 the percentage of males returned as literate was 9'15, and of temales 65, the former being a high figure as compared with other Districts The percentage of Hindus was 8:15, that of Musalmans being, as it usually is, much higher, vis., 18.66 Expenditure on education increased from Rs. 1.00 lakhs in 1904-05 to Rs 2 52 lakhs in 1906-07. Of the latter sum Rs. 1.07 lakus were contributed by Provincial revenues, Rs. 43,000 by the District Council, Rs 16,000 by municipalities, Rs 35,000 from fees, and Rs 52,000 from private sources. The above account does not include European education. This comprises 4 schools, -- the Bishop's High school (English mixed), St Francis de Sales school for boys (Roman Catholic Mission), and Guls' Convent schools in Nagpur and Kamptee. All these are High schools They contain 52 children in the High school stage, 177 in the middle, and 375 in the primary, or a total of 604. There is an industrial class attached to the Roman Catholic boys' school. The total expenditure amounts to Rs 76,000. The pupils are prepared for European primary, middle and high certificates and the Allahābād University Entrance Examination. A tew pupils in St. Francis school read up to the First Arts The District is under the Inspector of Schools, Nagpur Cucle, and has two Deputy Inspectors, whose ranges are called the Nagpur and Ramtck ranges respectively Girls' schools and European schools are under their special Inspectiess and Inspector

260. There are in all 20 hospitals and dispensaries in the District. Twelve of these are at headquarters and include the Mayo and Dufferin Hospitals, the Mure Memorial Mission Hospital, two railway and two Mill dispensaries. The Mayo hospital is a well-equipped institution with 84 beds. It has private wards and accommodation for Europeans and has iccently been improved at a cost of Rs. 22,000, spent chiefly on its excellent operating room. The Dufferin Hospital for women is under a Lady Doctor and contains 35 beds. The Mure Memorial Hospital, which is maintained by the United Free

Church of Scotland Mission, is also under a Lady Doctor. It contains 20 heds. There are 12 public dispensaries in the District. Five of these are in the city and there is one at each of the following towns -Umrer, Ramtek, Khana, Vistal Mowai Kuhi and Saoner At Saonai there is a second dispensary managed by the Scotch Free Church Miseron. At Sanner and at Kuhi special buildings have not yet been constructed, but funds have been collected for the purpose Private subscriptions have recently been collected also, for the establishment of two more public dispensaries at Kalmeshwar and Parseoni. At present only two of the outlying dispensaries have wards for in-nationts, namely, Umrer with 11 beds and Katol with 8, but at Khana a small ward is being added, and at Ramtek a wealthy contractor has promised to provide two large wards. In the year 1906, 1207 indoor and 250,212 outdoor patients were treated at the twelve public dispensaries of the District, and the average daily attendance was of in-patients 66 and of out-patients Nine of the dispensaries have midwives attached to them. The income of these (welve institutions in took was Rs. \$5,277, derived from Provincial revenues, from local funds, and from private subscriptions. At Nagpur there is one of the two Provincial lunatic asylums, a large institution with excellent grounds, in which at piesent there are 150 inmates. It is being enlarged and will soon accommodate Vaccination is compulsory only in the Nagpur and 278. Umrer municipalities, but it is carried on with fair success throughout the District, the staff employed consisting of a Superintendent and 17 vaccinators. Its annual cost 15 only Rs. 3460. The number of successful primary vaccinations was in 1890-91, 22,561 or only 32 per mile of the population. In 1990-01 it was 25,310, or 32 per mille, and in 1995-96 it was 27,149 or 42 per mille.

## APPENDIX.

GAZETTEER OF TAHSILS, TOWNS, IMPORTANT VILLAGES, RIVERS AND HILLS.



## APPENDIX.

## GAZETTEER OF TAHSILS, TOWNS, IMPORTANT VILLAGES, RIVERS AND HILLS.

Adasa — A small village in the Nagpur tabsil, 17 miles morth-west of Nagpur, with a population of about 300 persons. The village contains five old temples. In the temple of Ganpati the image consists of a single stone set up so that worshippers may walk round it. On a hill near the village is temple of Mahadeo with three Inigas, which are believed to have come out of the ground by themselves. There are also two stone tanks built by members of the Bhonsla family Small religious fairs are held here in November and January The proprietors are Gosains, one of whom is also the manager of some land granted for the maintenance of the temple. Many of the residents are Brahmans

Ambhora.—A small village (population 224) in the Umier tahsil, 37 miles east by south of Nägpur on the Wanganga ivere bordering Bhandára District. It contains a well-known temple of Chaitanyesvara, and the tomb of a Hindu saint, Har Hai Swämi. Thies religious tairs are held here during the year and attended by people from the Nägpur and Bhandára Districts. The village is a meie strip of land on the river-bank and the cultivators retail their produce to the pilgrims. The proprietor is a Maräthä Brähman, who has some fisheries established by ancient custom

Baregaon.—A large and fertile village in the Rämtelc tahsil, 5 miles north of Khūpa, and 25 miles from Nāgpur. The population increased from 1400 in 1891 to 2000 persons in 1901. The village has a fine temple of Vitthal Rukhmai, recently constituted by the proprietor. Wheat from Chhindwara is sold at the market here. The village has a primary school and has been perfectly partitioned into three shares, being owned by the well-known Kunbi Deshmukhs of Bäregaon.

Bela .- A large village in the Umrer tahsil, about 11 miles from Bori station and on the Wunna river. The population in 1901 was about 4300 as against more than 4600 in 1891. The village contains a temple of Dattatreva, an incarnation of the god Siva, who is much venerated in the Maratha country. On the festival of Datta Javanti in November the statue of the god is taken round the village on a wooden horse and chariot with music and occasionally a display of fireworks A fair is held in connection with the festival and the attendance is about 10,000 persons. Large numbers of rengis or light carts for trotting bullocks are brought for sale. The village has a number of betel-vine gardens and was formerly well known for the blankets and newar-tape made here, but this industry is declining. A considerable weekly market is held on Saturdays. Bela has a primary school and police outpost. A cess amounting to about Rs. 380 annually, is raised for sanitation. The proprietors are a Deshmukh family of Kunhis

Belona.—A large agricultural village of the Katol tabali, lying between Narkher and Mowar, in the north-west corner of the District, fifty miles from Nagpur. Its population was 3748 in 1891 but fell to 3390 in 1901, and is now stationary or retrograde. The cultivating castes are principally Mallis and Kunbis, of whom a large proportion are mälik-mabblads as or plot proprietors. There is also a considerable industrial community of Kostitis, Telis and Mahars, with an undestrably large sprinking of Mäiwäri, whose operations have caused an unusual amount of indebtedness among the cultivators of this, fine village. The Mahars weave coarse carpets (tarhass) and blankets (kambals). A small asseesment is levied for sanitary purposes. Belonä has a primary school, a post office, and a cattle-pound.

Bhiukund —A small village (population 146) in the Umrer tahsil, 22 miles north-east of Umrer. There are three caves here and the local story is that the Pāndava brothers dwelt in them for twelve years of their exile. In one of the caves

are six shapeless images, which are supposed to represent the Pändava brothers and their mother Kunti. Bhukund is a corruption of Bhinkund (Bhima's pool); Bhima being one of the Pändavas. The same name is found elsewhere, no doubt with the same story attached to it. There is a fine tank at the foot of the hill. The proprietor is a Brähman widow.

Bhiwagarh — A small village in the Rämtek tabsil, 18 miles north of Nägpur on the bank of the Pench. A hill by the village contains the remains of an old fort, its summit being encircled with walls made of ponderous masses of rock. The lines of defence over the pathway leading up the hill-side are constructed with some skill and are attributed by the people to the Gollis.

Bhiwapur .- A large village in the Umrer tabsil, 15 miles south of Umrer on the Chanda road. The name is a corruption of Bhimapui and the village is said to have been founded by a Gaoli of the name of Bhīmaji. The population in 1901 was 4700, having increased by 500 since 1891. The village contains the ruins of an old fort said to have been constructed 300 years ago by an ancestor of the Gond Rajas of Deogarh. There are weaving and dyeing industries and a cattle-market of some importance is held on Fridays. The Nagpur-Brahmapuri railway will pass through the village. Bhiwapur has a police outpost, a vernacular middle school, and an inspection bungalow. A sanitation cess amounting to about Rs 300 annually is raised under Section 161 (a) of the Land Revenue Act The village is held free of revenue in perpetuity by a member of the Gajar family which is related to the Bhonslas.

Borl.—A station on the Great Indian Peninsula Railway, twenty miles south by west of Nagpur, on the Wunnä river. The population in 1901 was 3023 and is stationary. The people are a mixed lot, mostly agricultural, and the Kunbis are the strongest caste. The lambardar maiguzar is Rāmchanda Rao Batī, an Honorary Magistrate of Nagpur city. He

has been empowered to raise a small cess for purposes of sanitation, but the working of the fund and the cleanliness of the town are far from satisfactory. The town is not progressive in spite of its transport facilities and the fertility of the surrounding country, and the solitary ginning factory belonging to Narayan Badrinath of Kamptee is closed at present. The vernacular school has 172 pupils, of whom eight are in training for the Nagpur Normal School There is a girls' school attended by 48 girls-a flourishing and successful institution for such a small town Bori has a police Stationhouse. There is an important Roman Catholic Mission at Thana, six miles away, which supports, educates and trains to various trades a large number of native boys and girls including fifty Government aided famine orphans. There is a small Tuesday market attended by about 400 people. The town is said to have been founded by one Lodhi Khan, a Pathan, in later Bhonsla times, and gets its name from the ber (Mar bor) or wild plum which was abundant in the neighbourhood. When Pindaris came towards Bori, Lodhi Khān placed an offering of a sword in front of Gorhe Deo who caused it to glitter, so that the town seemed on fire and the Pindaris turned away.

Bor River.—The Bor, a tributary of the Wunna, is more like a mountain torrent than a liver during its course in Māgpur District. Rising among the hills near Bazārgaon, it rushes down a winding and rocky channel between the Kondhali uplands and the Kauras plateau through the village of Aregaon in Wardhā Its narrow valley is very fertile, and the high well-wooded cliffs on aither side render it the wildest and most beautiful spot in the whole of Nagpur

Dahegaon.—A small village 12 miles south of Nagpur, It contains a fine tank built by the Bhonsla princess Bakā Bai, and belongs to the family estate

Dhapewara.—A town of something over 3000 inhabitants, on the bank of the Chandrabhaga river, five miles north of Kalmeshwar. It has a school and a post office.

The majority of the people are Koshtis, who weave ordinary mexpensive fabrics. The town is the Mecca of the Koshtis of the Maratha country, who come from all over the Central Provinces, and even from Poona, to worship at the sepulchre of their Sir Panches The line of the Sir Panches was founded over 300 years ago by Kolibā, who was in direct communication with Krishna and who wrote many sacred writings inspired by the God and venerated by all Koshtis. The originals are still extant scattered among the Koshti houses of the town. The direct line of Six Panches has been unbroken, and is now represented by Yado Rao. a man of much power and influence. The town possesses a notable temple to Vithoba, overlooking the river. It was built by Uman Aba, Diwan to Raia Baii Rao Bhonsla. He was a very mous man and used to make an annual pilerimage to Pandharpur, near Poona, to worship Vithobā in his temple there But the increasing infirmities of age threatened to frustrate his piety and he was much vexed in mind until one happy night the God appeared to him, and said that if he built a temple on the banks of the Chandrabhaga niver his worship would be acceptable there. There are the remains of an old fort, built in the time of Raghuii I, but its high walls did not save the town from systematic looting by the Pindāris

Digras —A small village in the Kātol tahsil about 3 miles south of Sāwargaon. Between Digras and Sāwargaon are a number of stone circles attributed to the Gaolis.

Dongartal.—A small village lying about two miles to the west of Deolapar and of the Nägpur-Seoni load. It gave its name to a pargana or small subdivision, which is well forested, and is a resort of Gaoli cattle-breeders.

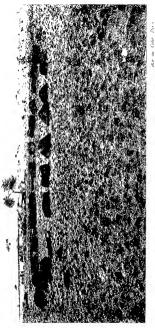
Ghogra.—A village in the Katol tahsil about 14 miles from Katol to the west near Saongā-Lohāra. On a hill known admnāth about two miles to the south-east of the village are some curious old buildings of massive stone with good carving. They consist of a centre room with portico and two side-rooms, and are bult without cement. They are attributed by the people to the magician Hemadpanth, who is supposed to have built 25,000 temples in one night in pursuance of a vow. To enable him to fulfil it the sun stood still and it was night for six months. The village has a primary school.

Ghorad.—A large village about 15 miles north-west of Nagpur near the new Kātol road and on the Jām river. There are a number of stone circles between Ghorad and Kohali.

Gumgaon .- A large village of 3359 (1901) inhabitants on the Wunna river, eleven miles south of Nagpur. The majority of the population is composed of Koshtis and Telis. The Koshtis weave women's cloths, while the Telis have generally taken to cultivation There is a fairly large and prosperous Mahar community who have cultivation, deal in cotton, and make linseed oil. Several of their members are rich men. There are about fifty Dhangars who weave sacking and coarse woollen blankets. Rājā Raghujī Rao is the sole proprietor. Arrangements for the sanitation of the village by the levy of a cess are now being made. The main source of the water-supply is from the Wunna river and is exceedingly bad. The wells are few and privately owned, and the provision of several good public wells is a matter of urgent importance. The village has a vernacular middle school. The people say that it formerly belonged to Hyderabad and was given to Bakā Bai, great-grandmother of the present Raghuji Rao Bhonsla, by a Nawab of the Nizam's. Troops marching north from Secunderabad usually halt at Gumgaon.

Hingna.—The two distinct villages of Hingna with 996 inhabitants (1901) and Raipur with 1937 separated by the Wunnat river are usually referred to jointly as Hingna. They lie nine miles south-west of Nāgpur. The lambardā mālguzār is Rāja Azam Shāh, in whose family the town has been since the times of the Gond Rājā. The largest caste are the Mālis who are ordinary cultivators. There are





many Dhangars who weave rough woollen blankets and have cultivation and many Koshtis who weave silk-bordeted higgras of medium quality. The village has a vernacular middle school and a small sanitation fund is leviced. Under the Bhonsla Rājās Hingnā was the headquarters of a pargana. The Kamankāðir had his headquarters in the mud fort, and was supported by a Risāldār (cavalty officer) and a regiment stationed at Wānadongri, a mile away The mosque built by the regiment still stands, but the regiment was iemoved over seventy years ago, to Sonegaon There are four or five stone circles to the north of the village site, said to have been made by the ancient Gaolis

Ialaikhera -- A village in the Kātol tahsil, situated on the Wardha river, fourteen miles north-west of Katol, and fifty-three miles from Nagour. With Gaulkhera and Mundmālipurit forms one inhabited village of about 1000 inhabitants. Formerly these three villages with Amner across the river were one large town, believed to have had a population of 30,000. Amner is now little else but ruins, and the other villages are of the ordinary rural type. The place is distinguished for its fine Maiatha fort, which is probably the most notable building in the tabil. It formed at one time the western outpost of the Bhonsla kingdom. and is a somewhat ambitious effort in fortification of the mediæval kind. It is built on a tock island in the Wardha river, and its walls fall more or less precipitately to the water on three sides. The gate is on the fourth side, and is approached by a curved road cut out of the rock and commanded by the two gate towers. The people say that another fort belonging to Hyderabad guarded the passage of the uver from the Berar side

Junapani.—A small village in the Nagpur tahsil, 7 miles west of Nagpur. In the neighbouthood of the village are numbers of the stone circles which are also found elsewhere in the District. The stones are not large and unless looked for they scarcely attract attention. It is supposed that they

mark the site of the temporary encampments of the old pastoral tribes in their wanderings from place to place Occasionally non nails and tools are found beneath the stones

Kalmeshwar Town -A small town on the Nagpur-Katol road, lying 12 miles to the west of the city in a rich plain of wheat land. In 1891 the population was 5921. This has fallen by 1901 to 5340. It rose to about 6000 in 1906, but towards the end of that year a severe epidemic of plague carried off 1300 of thinhabitants Most of these are Malis and Koshtis, but Telis, Banias, and Brahmans are also represented. The town has had a municipal committee from 1862, and formerly an octros duty, abolished in 1876. was levied. The first municipal committee elected under the present system of local self-government was that of 1882. It has recently become necessary to substitute a committee nominated by Government The principal sources of municipal revenue now are a small house-tax, a conservancy cess, considerable bazar-dues, and cattle-registration fees. In 1900 the total income fell short of Rs. 3000. It is now about Rs. 7000. Formerly Kalmeshwar was an important weaving town Its cloth-produce, however, has not been able to compete with that of Nagpur, nor has it benefited by the recent great expansion in cotton-growing. The produce of the rich plain which surrounds it goes directly to the city, and that of the outlying villages to the west and north-west goes to the factories of Katol and Saoner. The proposed construction of a railway line through Kalmeshwar to Amraoti will benefit it, but there is no prospect of a rapid development of industry. The town is, in fact, an agricultural market town, depending largely on its weekly market where 2500 people usually assemble. In the open season about 250 head of cattle are sold weekly. By far the most important public institution is the English middle school, which has an attendance roll of 62 pupils. The branch school, teaching Marathi, has 172 pupils. These serve a

country-side of large villages and on them half of the municipal income is spent. The buildings are not commodious, and a movement is on foot to provide a school for guls, and a boarding-house for hoys from outlying villages. Besides the school there are, at the central market place, a small post office and a police Station-house Since the last epidemic of plague, subscriptions have been given towards the establishment of a dispensary on a site to the south-east of the town. Its institution will be a boon to Kalmeshwai itself and to many large villages in the neighbourhood. The tradition of the town is that when Akbar Khan established himself in Poona he lent a small army to a Chhatri, by name Jar Singh Rānā, who defeated the Gonds at Pārseons and fixed on Kalmeshwar as his headquarters. For some generations his descendants administered the surrounding country under the title of Deshmukhs, and the present Deshmukh families of Kalmeshwar and Katol claim descent from these Raiputs.

Kamptee<sup>t</sup> (Kāmpti) City.—A cantonment in the Nāgpur

Description of the cantonment

District situated in 2\* 13' N. and 79° 12' E on the Bengal-Nāgpur,
Railway, and 10 miles from Nāgpur,

529 from Bombay, and 692 from Calcutta. It stands on an extensive plan of black cotton soil on the right bank of the Kanhan tuver, and is embowered in luxurant trees. It extends a little over four miles along the river bank from the Artillery Lines on the west to the Transport Lines on the east. At its highest point it is 996 feet above the sea. After the brilliant action at Sitabaidi in 1817 a large number of troops were located in Nagpur and formed the Nagpur Subsidiary Force Nagpur, however, proved to be so unhealthy that another site had to be sought for In 1821 the Cantonment of Kamptee was established and took its name from a small village on the left bank of the Kanhan river Prior to 1821 there were no habitations except one or two hamlets on the bank of the river but the villages

<sup>&</sup>lt;sup>1</sup>This article is written by Lt.-Col Kreyer, Cantonment Magistrate

of Anjini, Waregaon and Yerkheia were in existence. Practically the whole of the cantonment, the area of which is 84 square miles, is made up of land acquired from these three villages

The revenue from the village lands situated within the cantonment was somewhat hastily relinquished by the Commanding Officer in 1858 When the cantonment was established in 1821, during the regime of Brigadier-General Adams, a great deal of care and thought must have been exercised in its formation. It is laid out on the principle of a camp, the officers' quarters being in the rear and stretching in one narrow line along the river bank. Then comes the broad handsome road, called the Mall, extending from one end of the station to the other, and which is rendered agreeable and cheerful by its avenue of splendid trees and its neat tamatind hedges. After the Mall come the lines of the different units in regular order. On the right the Artillery, then the British Intantry, then the Staff, then the Native Infantry, then the Native Cavalry and then the Transport Lines on the extreme left. Open spaces and spacious grounds for parade and recreation purposes stretch as far as the Bagdura nullah, and beyond that again, is situated the large native town which is officially called the Sadar Bazar The cantonment proper is thus cut off entirely from the town, and the only bazars to the north of the Bagdura nullah are the smal ones known as the Dhobi Bazar, the Gora Bazar and the old Cavalry Bazar. The Sadar Bazar was very well laid out originally. It is built in regular streets at right angles to each other but at some period in the history of the cantonment the Marwaris appear to have been allowed to make additions to their houses in the most promiscuous manner and the quarters of the town inhabited by them are much overcrowded. The Sadar Bazai was under the control of a municipality until 1886 The cantonment proper was under the control of the military authorities who were under the Commander-in-Chief of the Madras Army. This state of things could not possibly continue and since 1886 the whole place has been administered under Cantonment Law

In 1821 the Garrison was very large. The exact strength cannot be ascertained but a plan of The Garrison. the cantonment, made in 1858, shows that there were lines for 2 Batteries of Artillery, one Regiment of British Infantry, 3 Regiments of Native Infantry and one Regiment of Native Cavalry with lines for elephants and camels in addition. In 1888 the cantonment ceased to belong to the Madras Presidency and came under the surisdiction of the Commander-in-Chief of the Bombay Army. In 1880 the Garrison consisted of a Battery of Artillery, one Regiment of British Infantiv, one and a half Regiment of Native Infantry and one Regiment of Native Cavalry, the whole forming the Nagpur district under the command of a Brigadier General In 1801 the Regiment of Native Cavalry was finally removed from Kamptee and in the same year the extra half-battalion of Native Infantry was transferred to Sambalpur. In January 1905 orders were issued under Lord Kitchener's leorganization scheme for the eventual abandonment of Kamptee as a military station The military district of Nagpur had already ceased to be of much importance, as its outlying stations of Raipur and Sambalpur had been denuded of troops. In March 1905, as a consequence of the scheme just referred to, the staff of the Navpur district was transferred to Ahmadnagar and since then Kamptee has been commanded by the senior Combatant Officer in the station assisted by a tourth-class station staff officer. It came directly under the General Officer Commanding the 5th (Mhow) Division in March 1905 but now (1907) forms part of the Jubbulpore Brigade importance of Kamptee is declining and it may perhaps be abandoned altogether, but for nearly 90 years it has been a model cantonment for neatness and cleanliness. General Burton, who was a staff officer in the Cantonment from 1858 to 1865, in his book "An Indian Oho," published in 1888.

says 'It presents a regular and well ordered appearance beyond that of most other military stations in India'. In 1007 it certainly has not deteriorated and it is remarkably free from the diseases, such as enteric and others, which attack the Butish soldier in India It has an honourable record, not the least feature of which being the loyalty of the garrison during the Mutiny. There was an attempt to rise in Nagour but it was promptly checked with the assistance of the Madras Troops stationed in Kamptee and then the whole garrison, which included the old and Regiment of European Infantry and the still famous 1st Madras Pioneers, marched to Banda and served under General Whitlock until peace was restored. The existence of six good camoing grounds in the vicinity, still called sanitary camps but for which there is no use as such, should not be lost sight of. Their names are Yassumba, Tekari, Seurah, Gada. Suradevi and Kuradi. Their limits are marked by boundary pillars and they are all provided with wells. Kurādi is an excellent place for the field training of troops not exceeding half a battalion and, in conjunction with the Sujadevi hills. forms the only possible position in the immediate vicinity of Kamptee where manœuvres with ball ammunition can be carried out with safety.

As the military population has declined in numbers so has the civil. The population in the last four years of census, including both military and civil, was as follows — \$1878, 48,831; 1881, 50,987, 1891, 43,159; 1901, 38,888. The population in 1901 included 26,379. Hindius, 9852 Muhammadans and 1851 Christians, of whom 1306 were Europeans or Eurasians. The number of these latter was reduced by the absence of half a hattalion of the British troops. Owing to two severe plague epidemics in 1903 and 1906, and to other causes, the population in 1907 is probably not more than 30,000. Kamptee is the fourth town in the Central Provinces in respect of population. The average receipts

and expenditure for the last decade were roughly 1'1 lakhs In 1906-07 the receipts were Rs 1,01,486 of which about half were derived from oction, and the charges were Rs. 1.05.070 but the latter included an expenditure of over Rs 6000 on plague measures including a campaign against rats Nearly 14,000 rats were caught in traps. The decline in the gross octroi receipts from a lakh to half a lakh during the last few years is an indication of the decline in the town's trade. During the Maratha rule traders flocked to Kamptee on account of the comparative immunity from taxation which they enjoyed within the cantonment and a large commercial town thus grew up alongside that portion of the station which was occupied by the troops. Owing to its favourable situation on the roads leading to Nagpur from the Satpura plateau, Kamptee for a long period monopolised the trade from this area. Increased railway communications and the emigration of large buyers to the larger town of Nagpur, the headquarters of the Administration, have gradually taken away from Kamptee a great deal of commercial business which was formerly transacted there. To this transfer of trade are to be attributed the stationary or declining figures of population during the last thirty years and the constituction of the Satpura railway has already considerably affected the imports. The new Ramtek extension will still further affect trade and the erection of a large distillery and several cotton-ginning and pressing factories just outside cantonment limits has also had a detrimental effect on the revenues of the cantonment

At the same time there is no doubt about the interior prosperity of Kamptee. The income from local sources, excluding octrothas increased from Rs. 22,297 in 1899-1900 to Rs. 46,822 in 1905-06. Trenched land leadily commands an average rental of Rs. 50 per acre and has been worked by the cantonment authority with a profit of

over three times that amount. Land a few yards away pays

a revenue to Government of one or two rupees an acre. There are several markets, each of which contributes some thing to the general fund. The Friday market which still attracts many people from the surrounding villages and from Nagpur, the daily vegetable and fruit markets, the cotton, cattle and timber markets, all flourish hide market is perhaps the most important of all. Although the cantonment authority charge the very small fee of one pie in the rupee on all sales they have farmed out the collection for 1907-08 for Rs 2400. At the lowest computation the value of the hides passing annually through the hide market is not less than five lakhs of rupees. In other directions, too, Kamptee still shows signs of life. It has become the headquarters of the manganese ore industry in Nagpur District. The Central Provinces Prespecting Syndicate, the pioneers in this particular form of mining, and the Central India Mining Company, to say nothing of numerous smaller companies and films, have their offices in the cantonment. Kamptee has also become the headquarters of the Kanhan Irrigation Division. The East India Distilleries and Sugar factories limited have erected a commodious and up-to-date distillery at the east end of the Kanhan bridge and the Public Works Department have made a new sub-division to work the brickfields at the junction of the Kanhan and Koilar rivers where perhaps the best bricks in the Provinces are turned out. The distribution of bungalows shows more than anything else what a change has come over Kamptee. In 1890 there were 115 bungalows all occupied by military officers except about ten of the smaller ones. Seventeen have since been demolished and in 1907 no less than 59 were either vacant or occupied by persons other than officers of the garrison. There are three cotton ginning and two pressing factories with a total capital of about three lakhs. They are situated on the south side of the cantonment and just beyond the boundary line Two were opened in 1801 and 1802 and the rest since 1900 There are two large darry-farms, one worked by the British Infantry Regiment, the other by private enterprise. The latter exports a large quantity of butter to Calcutta. There are tour mineral and aerated water factories and three printing presses; of these, three mineral water factories and one printing press are the property of the troops and are worked almost entirely for their own use. There is a large colony of Momin weavers who produce the cheaper kinds of cloth but the industry is not a paying one and these Momins, who form by far the greater part of the Muhammadan community, live from hand to mouth

The cantonment is under the jurisdiction of a Cantonment Magistrate. There is also a Small Cause Court Judge, who is Sub-Treasury Officer in addition. There is an Honorary Magistrate's court in the centre of the principal bazar and the number of Honorary Magistrates has usually been three.

The educational institutions comprise a Government High school which was established Schools and hospitals in 1863, and became a High school in 1901. while attached to it are (a) a school for lowcaste boys in the Juma bazar, (b) the Bansi Lal primary school, and (c) a boarding-house. There are also the Ellis Girls' school, founded in 1885, and named after Brigadier-General Ellis, Commanding the Nagpur District, the Nuns' Convent school started by the Nuns of St Joseph, which contains a boarding and day school for European children. and an orphanage for native children, and teaches up to the high and final standards; the Roman Catholic primary school for native boys and two primary schools of the United Free Church Mission. Medical relief is afforded to the civil population at the cantonment hospital. The hospital itself has accommodation for thirty in-patients. A female hospital, capable of containing fourteen beds, is situated quite close to the main building, but it has unfortunate associations and 10

is only used by one particular class. A dispensary in the middle of the Sadar Bazar is very popular. It has just been decided (April 1907) that all these medical arrangements are in luture to be under the control of an officer of the Royal Army Medical Corps who receives an allowance of Rs. 180 per measem from the Cantonment Fund. There are some private dispensaries in the Sadar Bazar licensed by the cantinment authority. The best managed and the most useful is undoutbedly the one called "St Mary's Dispensary". It is under the control of the Sisters of St. Joseph's and during the year 1905-of as many as 7150 out-door patients were treated free of charge.

The cantonment has often been flooded by the rivers

Kolarand Kanhan overflowing their
banks. What is locally known as

"The Great Flood" occurred on 4th September 1876 when the whole of the cantonment was mundated and the Cantonment Magistrate's office, with all its recoids, washed away. Many other houses were utterly ruined. The marks of the flood may still be seen on the dak bungalow and other houses. In 1877 a very fine embankment was built extending from No 1 bungalow to the Dhobi Bazar and thence to the Chhindwara road, while a smaller one protected the bazar and the Convent. The lowlying parts of the Gora Bazar are sull, however, without adequate protection, and in 1906 this locality was flooded, a number of prople being only rescued with great difficulty after spending several hours in trees. The river Kanhan is bridged at the east end of the cantonment by a fine stone foot-bridge which is 20 feet broad and 1322 feet long Close to it is an iron girder railway bridge. During the rainy season a ferry plies at one or other of the numerous tords. In the hot weather the river becomes an insignificant stream with, however, some deep and dangerous pools which never appear in the same locality for two years in succession. Never does a year go by without these pools claiming

one or more victims and quicksands are by no means unknown

The station has three churches or chapels The English
church is a Government building
churches and there are also a Roman

Catholic chapel to which is attached a school and small club for soldiers, and a Methodist chapel located in a buogalow. The Church of England cemetry was made in 1888. An interesting sculpture in it is that of two soldiers of H. M's 21st Foot in the uniform of 1845, subscribed 'Alas poor Tafly'

Kamthi (Telgaon)—An agricultural village of about agon inhabitants four miles west of Saoner and twenty-four miles from Nagpur. It belongs to the Junior Bhonsla Estate. Part of the village site covers an old mud fort said to have been built by the Gooli kings. An assessment for saintary purposes was imposed in 1907. A weekly bazar is held on Mondays. The village has a primary school,

Kanhan River .- The Kanhan enters the Listrict near Baregaon, a large village of the Ramtek tabail, and then takes a south-westerly course past the town of Khapa to the cantonment of Kamptee, where it receives the Pench and Koilar and is crossed by two bridges Pursuing its course onwards it marks the boundary of the Ramtek tah-il and after receiving the Nag river near the hills of Bhiukund. finally empties itself into the Waingans a at Gondpipii. The Kanhan is the largest tributary of the Wainganga in the District, but its course after it leaves the Satpuras is marked by no scenery of interest For the most part it flows through a deep channel with a sand; bed, and its banks are bare or covered with short scrub At Neri a few miles below Kamptee, there is a short stretch of alluvial land of extreme fertility in the river bed, but this is the only variation in its nonotony of sand. The direct drainage area of the Kanhan on the south seldom extends to more than a few hundred rards, and the surplus water of the land to the south only eaches it through the channels of small tributaires, which

run on an almost parallel course, only gradually converging on the main liver — Its length in the District is about 65 miles.

Kanholi —An agricultural town of 2133 inhabitants (1901) on the Anapuma iver, twenty-three miles south-west of Nagpur. The Teli caste predominates very largely, accounting for over three-quarters of the population. Of the militurais there are two Brahmans of the Charpure family with high connection in official circles. The family obtained possession of the village in the reign of Baji Rao II, in whose household they held an office corresponding more or less to that of a Chamberlain. The village has a primary school, a post office and a cattle-pond.

At the present time the village is surrounded by fair jungle, but tradition seems to point to a luxuriance and strength of growth in old times, of which there is only too little trace now. There is a story of a Nawab (of Mughal times), who cut a tree in the Kanholi jungles and was carring the trunk to Nāgpur but found that no expenditure of bullock-labour could get the trunk past a spot called Singhân Dip, two miles from Kanholi. The obstruction was attributed to divine agency and the log was allowed to remain there, and a few disintegrated fragments have been preserved and are still worshipped as Mayal Deo. There is a small shrine to Matabā who is said to have confounded and blinded the Pindāris in the jungles when they came to look Kānholi (Qf. Nanda Gaimukh).

Katol Tahsil.—The Katol tahsil is the western tahsil of the District and is situated between 21°2' and 21°3' N. and 78°2'5' and 78°5'9' E. It is in shape an irregular quadrilateral, with one side to the north bounded by the Chhindwāra District on the facing north-west, bounded by the Amraoti District of Berår, another facing south-west, bounded by the Arvitahsil of the Wardhān District, and the fourth side facing roughly east and bordering onthe Nagpur and Rämtek tahsils.

Except on this last side the tabsil has well-marked natural boundaries On the north it extends up to the fringe of the Satpura bills, and on the north-west it is marked off by the Wardha river and the Kar river. The tahsil has three principal hill systems. The first is the Satpura range on the north; the second a belt of uplands running from the extreme western corner (the trijunction of Nagpur, Wardha and Amraoti) past Kondhāli to the south-east boundary of the District, and the third, a broad band of confused hilly country covering almost the whole of the eastern halt of the tahsil between Kondhali and Kelod, and forming the watershed between the Wainganga and the Wardha valleys. These three hill systems enclose a rich plain, part of the Wardha valley, which forms the north-western portion of the tabsil The Jam valley is an extension of this plain in the corner formed by the second and third ranges and is broad and fertile at Paradsinga, but narrows to little more than a gorge at Kondhāli.

'The Katol tahsil has a total area of 800 square miles, of 'which 56 are comprised in Government forest. It is 'remarkable for the abrupt contrasts of stony upland and ' fertile plain which it presents. It is said of the Katol ' tahsīl, as doubtless may have been said of stony regions in ' various paits of the world, that the Creator of the Universe, ' having completed the construction of the world, had a ' residue of rough materials, stones and rubbish, which he ' threw down on to the nearest tract of country to his hand ' at the time, and that this happened to be the Kātol country. ' But these celestial rubbish heaps have proved a blessing to ' the country in which they have fallen. They have served ' to enclose and protect from erosion the deep lowland which ' they encircle, and the low country between them, embanked, as it were, by Nature's haid, seems to increase rather than diminish in fertility. The prosperity, industry, and ' commercial activity generally prevailing in this tabsil, are the material evidences which show that in this region of ' the District, Nature, despite a rugged exterior, has been 'not niggaldly of her bounties '1

The population of the Kātol tahsil was 162,588 in 1901, oi

214 per cent of the District total Papulation The tural population is 132,273 against 118,334 in Nagour, and the density of the gural nopulation is 170 per square mile as against 120 in Nappur. 125 in Ramtes, and 116 in Umrei. The population in 1881 was 147, 335, and rose in 1801 to 157, 100, an increase of 6 6 per cent The increase during the next decade was a 5 per cent. Katol is the only tabail which has shown a steady increase during the last two decades, a fact due to the superiority of its agriculture, and the protection against failure of crops afforded by the natural embankments of hills already alluded to It was not severely affected in the famines. The towns of the tah-il are Kātol (7313), Narkher (7726), Kelod (5141), Mohpā (5336) and Mowar (1799). In addition there are eight large villages containing over 2000 persons and fourteen of 1000 to 2000 Kātol tah-īl includes 404 villages of which 134 are uninh bited Katol has, on the whole, the poorest soils of the four

tabsils as regards composition. Agriculture although it has all the kall soils of the first class in the District. The percentages of the various soils are 2 for kall, 55.9 for morand, 28.5 for khardī and 13.2 for bardī. Nevertheless, from an agricultural point of view Kātol is the most advanced of the four talisils, and its lands produce kharif crops as valuable as the wheat of the other tahsiis. The cultivators are intelligent and enterprising to an unusual degree and spend much time and money on improvements to their fields. Of the 17,000 acres of irrigated garden land at settlement, 8000 acres were in Kātol. Of the total area of 476,000 acres at settlement, 358,000 were occupied and 332,000 were in cultivation. The actual area cropped has risen since the thirty years' settlement from 265,000 acres to 337,000 acres in

<sup>&</sup>lt;sup>1</sup> Nägpur Settlement Report para 20.

1900-07, an increase of 29 per cent which is the largest in any tahvil. Of the total area 75 per cent, is occupied, 5 71-8 cities ungle, 42 tree-forest, and 11/8 unculturable. The following table shows the statistics of cropping since settlement.

		Total			Tol	Total area under	der		
£ **	£ "	area	Wheat.	Rice	Linseed,	Li	Juir.	Cotton	Tor
<u></u>		311,638	29,496	2,078	17,659	1416	131,513	84,280	53,282
<u>چ</u>	8	302,309	30,061	3,359	6,774	13,477	153,490	+98'69	52,117
31	31	313,444	30,474	2,979	9,620	+,992	140,492	77,866	53,076
29.5	29	196,262	13,005	537	2,511	3,611	145,859	610146	30,656
332	332	332,686	16,518	1,261	2,893	7,373	150,180	109,200	55,001
333	333	333,367	21,703	812	5,205	6.945	149,485	106,372	53,612
335,309	335,	309	8,303	1,362	1,592	5,255	136,85:	117.577	62,719
335,744	335,	Ŧ	16,279	972	2,511	12,746	132,643	137,154	58,673
338,	338,	338,338	9,949	925	1,231	5,926	144,613	140,781	242
340	340	340,274	128,01	416	1,190	5,222	136,240	147,071	860,93
336	336	336,686	20,913	139	3,857	4,188	148,879	118 436	65,129

The area under spring ctops has fallen markedly, and the gain having been entirely to cotton and its mixtures, the tahsil is now almost exclusively dependent on autumn crops

The land revenue at the old settlement was Rs. 2:36 lakbs, but was raised at the last settlement to Rs 2:70 lakbs, which represented 62 per cent. of the total malguzari asset. The land revenue per acre works out at R. 0-13-0. The Naikher group has the highest rate in the District with R 1:4-11, and the Kondhali group the lowest of R. 0-7-7 For the purposes of assessment the tabsil was divided into the following groups --

- 1. Saoner group.—The most fertile portion, in the northeast of the tabsil, with 92 villages
- 2. Kohli-Mohli group,—A jungly tract along the eastern boundary of the tahsil, with 43 villages,
- 3 Kondhālı group.—Containing the southern hilly portion of the tahsīi, with 60 villages.
- Säwargaon group.—The northern portion of the Kātol pargana extending to the northern border of the tahsil, with 72 villages.
- Narkher —The most fertile portion of the Wardhä valley, in the north-west corner of the tahsil, with 64 villages.
- 7. Thari-Pauni group —Lying to the south of the Narkher group, and enclosed by the Jam, Wardha and Karrivers, with 73 villages.
- 8 Kătol group —The central portion of the tahsil with 91 villages.

For ordinary revenue work the tahail is divided into three Miscellaneous. Revenue Inspectors' circles, with headquarters at Piplā, Jalalkherā and Kondhāli, and into 66 patwaris' circles. The tahail has hitherto been very badly off for communications, but a railway is now being constructed which will open it up.

Katol Town.-The headquarters town of Katol tabsil, situated in 21°17' N and 78°36' E., General Description 36 miles to the west of Nagpur with which it is connected by a fair road, partly bridged which passes also through the town of Kalmeshwai Katol this road becomes a mere surface track running into the Amraott District. The town now includes the large adjoining village of Peth Budhwai, which lies on the lam, a tributary of the Wardha river The population of both was 7040 in 1891 and 7313 in 1901, but as the town is the trade centre of a wide cotton-growing tract it has grown considerably since last census. The old town-site is crowded and insanitary, lying in a hollow and traversed only by narrow crooked lanes But the recent trend of extension has been towards the higher ground on the south-east where the cotton factories stand.

Kâtol is believed to be mentioned in the Ashwamedh canto of the Mahbhārat as Kundustes
Antiquities tallapur, so named from Kunital, a Raja whose capital was situated here it possesses two of the Hemādpanthi temples which are said to date from the days of Rāwan and to have been built in one night by his demons. The mud foit dates from the time of the Gond dynasty, and in the time of Dhaimāji Bhonsla it was held by a Pindaii confederacy which paid more or less iegulai tribute to the Rāja and protected the country side from other raudine bands.

Kātol is an ancient town but it reached the first stage of modern municipal development only modern municipal development only in 1905 when it was notined as a Town-Fund area For the first year its income was only Rs. 4761, but it has now risen to about Rs. 7176. Its prosperity depends chiefly on cotton-trading, and during the past two years most of the municipal income has for that reason been expended on a cotton-market, now practically complete. This is a large enclosure of about ten acres,

securely fenced, and provided with a weighing-shed, well, water trough, young shade-trees, and an arc-light. Within the enclosure, round the central market square, several substantial shops are being elected by merchants.

The weekly market of Katol has long been important and is now attended by from 6000 to 8000 people. Commodities of all kinds are dealt in but the bazar is more especially important as being the second largest cattle-market in the tabril in the month of Chaitra (April) the Saraswati fair is held and is usually attended by about 10,000 people. In former days the gardens of the town were noted for their growth of fine gampa, and they still produce excellent oranges and mangroes.

But cotton is the staple of Katol trade. In the year 1905-06 26,723 carts of raw uncleaned cotton were sold in the market, and that number is hable to be exceeded in years of heavy harvest, for the town di aws produce from the rich valleys of the Jam and Wardha nivers and from many til-ges of the Amiacti and Wardha Districts. There are now four ginning factories at work, and three of these have presessable. They are fitted with 126 gins, which in 1905-06 turned out 32,000 bales (or 512,000 maunds) of cleaned cotton. It is to be hoped that hight railway communication with Nagpur city will soon be obtained.

The educational institutions comprise an English middle school with 250 pupils, two branch schools and a girls' school. The buildings are now too small for the town's requirements and large new school is shortly to be built on the plateau to the south-east across which the main road is to be diverted. Here too a new post and telegraph office is to be built and a new tabsil court. A portion of the open ground has been utilised for a Town Hall, now nearing completion, the funds for which were raised by subscription, and on another portion a small Club House is being verted. Close to

these sites stands the present tahsih, which is to be converted into a police Station-house, and the dispensity, which has a male and a female ward with 6 beds attached to it.

Kelod Town -An agricultural town in the Katol tabeil. situated in 21°27' N and 78°53' E. on the verge of the Sătpură hills, twenty eight miles from Năgpur along the Chlindwara road It lies on the northern edge of a fertile black cotton soil plain of which Saoner is the centre, and shares to some extent the prosperity of its greater neighbour. Its population was 5141 in 1901. The town is mainly agricultural, but has a small industry in the simpler kinds of brass ware. It has a weekly Thursday bazar, at which large quantities of timber and firewood are sold Kelod is under the provisions of the Village Sanitation Act, the revenue being derived from a house-tax, market-dues and' brokers' fees. In 1906-07 the income was Rs. 1785, and will probably increase. The town has a vernacular middle school with 153 pupils, a police outpost, and a post office The name is probably derived from the kelā or plantain tree

Khairgaon.—A nch well-wooded village with over 400 acres of gardens and about 160 wells, Jying on the cast bank of the Wardha river, two miles south of Mowar, and fitteen miles north-west of Katol. The tenant body, which consists prancipally of Malis, is numerous, and the average holding is less than three acres. The village is owned by the Deshpände (Brahman) family of Ammer, at one time wealthy and influential but now financially embarrassed. The population was 2306 in 1901. A small assessment for sanitation has been imposed from 1907. The village has a primary school.

Khapa Town.—A town in the Ramtek tahsil, situated in 21°25'N, and 79°2' E on the Kanhān river, 22 miles north of Nāgpur and 6 miles from Pātansaongī on the Chhindwāra road. A metalled road leads from Pātansaongī to Khāpa The population in 1901 was 7615 as against 9383 in 1891 and 8465 in 1881. The town is built on a site high above the river and immediately overlooking it, while on the land side it is completely shut in by fine groves of mango-trees. Thirty years ago Khāpa was described as one of the most flourishing towns in the Nagpur District and the decrease in its population is to be attributed to changes in the course of trade. Its principal industry is cotton-weaving, which was then flourishing but is now declining in prosperity owing to the competition of the mills Khapa is not favourably situated for the location of pressing and ginning factories and is therefore being supplanted by its younger rivals in the centre of the cotton area. Cotton cloths in various colours for women are principally woven, while from an agricultural point of view the town is a very poor one Khapa was constituted a municipality in 1867 and the average municipal secupts for the decade ending 1901 were Rs. 6500.' In 1905-06 the receipts were Rs, 8000 and the expenditure Rs. 10.000 The town has weekly timber and cattlemarkets. It possesses a vernacular middle school with nearly 200 pupils, primary schools for boys and girls, and a dispensary, post office and police outpost. The present head proprietor of Khapa is a Brahman. It formerly belonged to a family of Kalars who were heavily involved and resorted to any possible device for raising money, while the tenants followed their example and the place generally has a bad reputation for fraudulent practices.

Koular River.—The Koular rises in the north-east corner of the Katol tahsil, and after passing through the rocky country of Lohgarh in the Pilkäpär range emerges into the fertile plain of Saoner, and separates the Nägpur from the Rämtek tahsil until its place as a boundary river is taken by the Kanhan The Koilar has a more rocky bed than the Kanhan; at Pätanssongi it receives the Chandrabhāga, which brings to it the dramage of the Kalmeshwar plain. It is bridged at Dahegaon, where it is crossed by the road from

Nágpu: to Chlindwara. The doab of Parseoni between the Pench and the Kanhān, and the doab of Patansaong: on the narrow strip of land enclosed between the Koilar and the Kanhān are the most fertile and highly cultivated portions of the Ramtel tahsil. The length of the river is about 45 miles.

Kondhalı.—A large agrıcultural village of the Kātol tabsli, Jyng eleven miles south by west of Kātol. It is connected with Nāgpur from which it is thirty-four miles distant, by the old Nāgpur-Amraoti main road iunning through Bužārgaon The population was 3784 in 1901. Kondhali was at one time a depôt for the important itade between Nāgpur and Amraoti, but after the railway was built it lost much of its importance, though its Wadinesday market is still one of the most frequented in the tahsil. It also lies in a more or less detached cotton-growing area, and has a brisk business in the transport of cotton, which is largely carried on by Telis. Most of the Government forest reserves of the tahsil lie around Kondhali. The village has a ginning factory belonging to the Chitnavis firm of Nārpur, a onnary school, and a post office

Kuhi .- A large village in the Umrer tahsil, lying near the Nag river 12 miles north of Umrer town and 22 miles from Nagpur The population was 3057 in 1001 as against 3381 in 1891. Kuhi is noted for its mango-groves and guavas and has one of the largest tanks in the District The ruined shrine and temple of Rükhar Maharaj are held in great veneration. This saint is credited with miraculous powers and it is said that on one occasion he fed 500 beggars with two loaves of bread, which remained intact after all had been served. On another occasion the giver of a marriage-feast found himself without provision for his guests, but the saint supplied a small measure of rice, which when cooked sufficed to feed a hundred people. Not less curious are the legends connected with the tumbs of two Muhammadans, whose aid is invoked by the Hindus for the cure of their cattle.

The village has a weekly cattle-market and is visited by traders from Kamptee every year to make purchases of grain. It is the headquarters of some old established money and grain lending firms. Kuhi will be a station on the Nagpur-Brahmapuri railway and its importance may thus be expected to increase. It has a primary school, a post office and a posice outpost, which will shortly be converted into a Station-house. A cess is intrace for sanitary purposes, which now stands at about Rs, ago but will be increased. As is often found in the older village-sites of the District the water of the wells is somewhat brackish and it will be necessary to lay out a spactous market-place between the village and the railway station and to provide new wells. The proprietors are an old Kunhi family, the members of which are now in somewhat reduced circumstances.

Makardhokra—A large village in the Umier tahsil, about 8 miles west of Umrei and 16 miles from Bori station It is on the Bori-Umrer road and is excellently situated on fertile level land near the Amb river. The population has declined from 2508 in 1801 to 2364 in 1901. A number of Koshti weavers reside here and there is also a considerable colony of Bhāmtas, who weave coatse canvas matting. They also grow hemp and the cultivators sublet their fields to them for a year for this purpose, as the crop renders the land more productive. The village contains a school and post office and is part of the Bhonsla Rajā's estate.

Mandhal.—A large village in Umrer tahsil, it miles from Umrer towards Veltur situated on the Amb river. The population fell from 2345 in 1891 to 2048 in 1901. The village contains a fine tank and on the bank is a small shrine erecied to the memory of one Maroti Mahardi, a Brahman devotee about whom there are several legends, one being to the effect that he had a small tail. It is also said that he addressed all women as 'Mother' and would suck from their breasts. There was formerly a cloth-weaving industry, but most of the Koshib have now emigrated. The village MANSAR. 303

has a school and post office and a small coss is raised for sanitation. The village is held free of revenue, forming part of the Bhonsla estate

Mansar -A village on the Great Northern Road, 15 miles north of Kamptee and 5 miles from kamtek The road to Ramtek takes off here from the Great Northern Road It has a fine tank from which rice and botel vine are irrigated, and after which the village is called 'Manisar' or the 'lewel Tank' Mansat is one of the eight sacred places surrounding Rämtek, and pilgrims to the great shrine come here to bathe in the tank. The village is overhung by low hills, the southern slopes of which are strown with brickbats, while here and there the foundations of brick walls crop up through the surface Parts of the old walls have been excavated and the bricks taken for building houses in the village. At the eastern end of the hills on level ground near the corner of the tank is a great mound, the lower part of which appears to be composed of solid brickwork. It has all the appearance of the stump of a Buddhist staba. About the base of the mound bricks have been dug out which appear to have belonged to the broad walls of massive buildings. The bricks measured 171" by 91" by 3" and are cemented with mud. The area covered with the brick foundations is too small for a town or civil settlement, but large enough for a religious colony, and the place may have once been a Buddhist monastery No images or stone-carvings are to be found except one broken figure, which the people believe to be that of the female demon Hidimba She is a mythological personage in the Mahabharata, who saved the Pandava brothers from being devoured in their sleep by her brother, the giant Halimba. She had fallen in love with Bhima and he married her as a reward for her action. Many of the adventures of the Pandavas as related in the great Hindu epic have been assigned by rural tradition to different places in the Nagpur country, but such stories cannot be considered to have any historical basis. About the tank it is related that formerly any traveller who halted for the night on its banks would find brass cooking-vessels fleating on the water for his use. The only condition was that he must return them to the tank in the morning. But one covetous traveller kept the vessels and did not return them and since then they have ceased to appear. A temple of Krishna, the deity of the Mānbhaos, stands by the tank, and a local gathering of the Mānbhaos is held at Mansar in the month of Chaitra (April).

Manganese ore deposits occur in the hills near the village and are being worked by the Central India Mining Company. They are described in the securen on Minerals. Beautiful orange and deep-orange spe-saritte crystals are found in the pit known as the Kamptee Lady. The betelvine grown at Mansar is of a somewhat bitter variety and was much liked by the Bhonsla Rafi, Baka Bai, who with her household consumed large quantities of it. Since the removal of the Court the leaf has become less fashionable and now commands a much lower price than that of Rämtek. The village has a traveller's bungalow and is own d by a Maratha Brahman lady.

Maunda.—A lauge village in the Rämtek tahsil, 21 miles from Nägpur on the Gieat Eastern Road, and situated on the Kanhán river. It has a population of about 3000 persons. Maunda is surrounded by five mango groves and has an old saft pillar, on the face of which is a rudely carved female figure. There is a weaving industry here, and a quantity of rice from Bhandara is brought for sale to the weekly market. The village has a police Station-house, a school and an inspection boungalow, and it belongs to Nacioli Rao Gotiar.

Mohpa Town —An important agnicultural town of the Kātol tāhsil, situated in zi\*ig'N and 76°50'E on a tilbutary of the Chandrabhāga river, eight miles north-west of Kalmeshwar and twenty-one miles from Nagpur. The tributary runs through the middle of the town and seems to have been

subject to severe floods at long intervals. The worst on record occurred in June 1906, when over three hundred houses were washed away. The inhabitants, however, aigue that the flood will not come again for many years, and have rebuilt then houses on the old sites The population was 5638 in 1801 and 5336 in 1901 The malguzais are Kunbi Deshmukhs, and are a strong and quarrelsome set of men, who fight amongst themselves, and combine against the Muhammadan community The trouble of religious demonstrations and processions threatens to become chronic in Mohpa. The provocation given by the Deshmukhs is at times \*peculiarly mutating, but is always within the letter of the law. The town has always been notorious for its dirty condition, and in 1005 it was put under the provisions of the Village Sanitation Act, and a local committee appointed to ensure its cleanliness. But the notables appear to have found their old system of village politics more exciting, for the committee has met very rarely, collections are in arrears, and the town is as dirty as ever. The people are prosperous and the demand for land in Mohpā is extraordinarily keen. The weekly market is one of the most important in the tahsil; in particular the cattle-dealing business is the largest in the District, vielding Rs 1000 a year to the committee, Garden produce also is largely dealt in, and there is a small trade in cotton. One ginning factory has been established Mohpā has a vernacular middle school with 173 pupils and a post office. The United Free Church of Scotland has a mission in the town, dating from the famine of roon

Mowar Town.—A small but flourishing municipal town of the Katol tahsil, situated in 21° 28′ N. and 78°27′ E on the Wardha river, in the north-west corner of the District, 50 miles from Nagpur. The population was 4581 in 1891, and rose to 4799 in 1901, and is still increasing. The surrounding tract of country is one of the richest in the District.

Mowar appears to have had some kind of corporate existence since remote times, and History the old Muhammadan inhabitants profess to have seen deeds granted by Auranezeb to the people of the town. It was situated on the debatable land between the Hyderabad and Nagpur territories, and the landowners used to divide their tributes of land revenue between the two powers in proportion to the strength of each for the time being. The present municipality was constituted in 1867, and the town has had a prosperous career ever since. A proposal has been mooted for the reduction of its status as the town is a small one to enjoy municipal privileges, but the committee has done excellent work during the last two years, then finances are flourishing. and they deserve to retain their old dignity.

During the decade ending 1901, the average income of the municipality was Rs 3600, but it has now risen to nearly Rs. 6000. The principal heads of ievenue are bazar dues, a latrine tax, and a house-tax. The committee has commenced a scheme of drainage by surface V-shaped drains, and has also started a system of street lighting. Up till 1906 Mowar was said to be the dirtiest fown in the tahsili, but the activity of its leading of citizens has resulted in so much improvement that it could now challenge comparison with any town or village in the District.

Mowar is best seen from the high ground on the bank of the Wardha river, towards Khaiigaon. From this point the fine old stone revetment built by the Marathas, and the clean white-washed buildings arranged round the open market place, present a scene of tidiness and well-being that will not be easily equalled. To the north a large embankment has been built for protection from the river. The municipal office, the dispensary, the school and the police outpost, which all open on to the market place, are well

constructed buildings of more than usual pretensions. The town has a vernacular middle school with 123 pupils, comprising no fewer than twenty-two different castes

Mowar has profited considerably by the decay of the old town of Amner, which used to attract all the produce and tade of the north-western part of the tabsil. The railways caused the final downfall of Amner, and its northern trade found its natural market in Mowar. The weekly Wednesday market is a famous one in these parts, and is attended by about 7000 people in the open season.

Nagardhan .-- A large village four miles south of Ramtek, with a population of 2500 persons in 1901 as against 3100 in 1801 The name is a corruption of the older one of Nandivardhan, which is mentioned conjointly with Nagpui in a copper plate found in Deoli in Wardha District and dated in the year 940 A D. Nagaidhan was thus an old town and was formerly of considerable importance as it gave its name to the District. The local tradition is that it was founded by a Sūrvavansi king Nand, but Mr Hīra Lāl supposes it to have been established by a king named Nandivardhan belonging to the Shail dynasty, which is mentioned in the -Ragholi plate discovered by Mr. C. E Low in Balaghat The village has a temple of Koteshwai Mahadeo built in the Hemadpanthi style without mortar. The linga in the temple is broken by a crack about three feet deep. The people say that once there was a Gaoli woman who worshipped Mahadeo very ardently and always before she went out to sell milk she offered some to the god. In 1eturn he caused her milk to increase and she made much money by its sale. Her husband, not understanding how she got the money, suspected her of bad conduct, and seeing her visits to the temple, he concluded that she met her lover there. One day accordingly he followed her with a spear, intending to surprise and slay the couple The woman seeing him approaching in wrath prayed to Mahadeo to shelter her, and accordingly the linga opened and she

ctept inside. It has never quite closed again, and since then the crack has remained. The enraged husband struck the langa with his spear and made a hole which is still visible.

Near the temple is a tank, known locally as Shankh (conch-shell) Tirtha or Sukla (white), which Mr. Hira Lal suggests may be the Hans (Swan) Tirtha mentioned in the inscription of the temple of Lakshman at Ramtek. The inscription states that bathing in the Hans-Tirtha makes one clean of sin like the whiteness of a swan. Thus, the epithet of white may have come to be attributed to the tank, and the name Hans may have been changed to Shankh There is a fort said to have been built by the Bhonslas with brick walls resembling those of Chanda town, and at some distance is a large field known as the Juna Killa or 'old fort'. This was probably the site of the fortress of the early kings. In the field large bricks are found like those at Mansar. Nagardhan is said to be the first place to which the Ponwar Rajputs came after leaving Dhara, then original home in Mālwā, and a number of langra Lodhis reside here, who may formerly have been soldiers. The village has a primary school and a post office and the proprietor is a Tilokchandi Bais Raiput.

Nagpur Tahsil—The Nagpur tahsil forms the central and south-western portion of the District, lying between 20% of and 21°23′ N. and 78°44′ and 79°19′ E. It is bounded on the north by the river Koilar as far as its junction with the Kanhān above Kamptee, and thence by the Kanhān itself, separating it from Ramtek. South and east lies Umrer, the Wunna river marking the border for about 15 miles, while to the south-west the tahsil adjoins the Wardhāl District, and to the west and north-west Kātol. The tahsil may be divided into four marked geographical tracts, the Kalmeshwar plain, the Kaunas plateau, the Wunna valley, and the Nagpur-Kamptee plain. The first of these tracts,

the Kalmeshwar plain, lies in the northern portion of the tabsil It is drained by the Koilar, and its principal tributary the Chandrabhaga. The second tract, which differs considerably in its natural features from every other part of the tahsil, is the plateau of Kauras, a continuation of the uplands of Katol, which round off in this tabsil and form an extensive and fairly well cultivated tract of high land. The Wunna valley, the third tract, comprises the central and southern portions of the tahsil, traversed by the Great Indian Peninsula Railway The surface is generally undulating, and is broken by a few low hills. The fourth tract comprises the whole of the Nagpur pargana, the level plain lying to the south and east of Nagpur, drained by the Nag river and its tributaires. The first and fourth of these areas are the most fertile and contain the best wheat cultivation; in the third there is also wheat but to a far less extent, and there is abundance of juar and a fall amount of cotton second tract has very little wheat indeed and the poor lands are chiefly cultivated with juar, tur and cotton

The population of the tahsil was 268,479 in 1881, 294,262

Population.

In 1891, and 296,117 in 1901, showning increments during the two census periods of 9 6 and 0 63 per cent. The density per square mile is 340, but excluding the large towns the rural density is only 139. The towns of the tahsil are Nägpur (127,734), Kamptee (38,888), Saoner (5821) and Kalmeshwar (5340). The tahsil also has five large villages with a population of over 2000 and nine with a population of between tooo and 2000. Excluding Nägpur and Kamptee and their dependencies the tahsil is comprised of 559 revenue mahals, of which 417 are inhabited villages and 142 uninhabited.

The soils of the Nägpur tahsil are distinctly above the

District average. They are comprised of 2 2 per cent. kall, 70 4

morand, 22 5 khardi, 4'5 bardi and rettire, and o'1 per cent.
kachhar. Of its total area of 508,000 acres, 401,000 were

occupied at settlement, and of these, 331,000 were under cultivation. The occupied area had increased 9 per cent since the previous settlement. The following table shows the changes in cropping since 1896—

		E			Total area under	a under		
Year.		rotal cropped area,	Wheat.	Linseed.	Til	Juar	Cotton	Tür
16-96g1	1	381,437	63,322	36,139	13,503	169'98	686'61	14,527
*** 86-4681	i	304,123	968,78	28,992	14,163	115,324	42,943	18,769
66-8681	:	162,782	60,167	45,469	5,424	115,88	45,782	16,145
0061-6681	i	287,871	30,419	24,837	17,423	13,081	52,448	17,336
10-0061	:	331,038	34,460	17,402	20,679	117,532	84,924	17,362
1901-02	÷	325,015	56,342	31,390	8,610	124,528	50,211	16,505
1902-03	•	345,968	32,544	17,634	8,596	133,147	103,270	19,013
1903-04	:	344,806	47,162	26,390	8,500	108,410	119,895	14,561
1904-05		352,732	41,840	17,814	5,556	121,097	130,855	17,014
1905-061	:	359,396	39,626	17,066	3,134	115,260	147,704	r4,360
20-9061	i	360,071	\$2,160	26,820	3,143	85,621	92,410	16,361
-				-		-	-	-

As generally throughout the District the area under rabi crops has fallen in this tahsil from over one-third of the total to just over one-fifth, the gain being almost all to cotton.

The land revenue assessed at the thirty years' settlement was Rs 2 44 lakhs and it was further enhanced at last settlement to Rs. 2°84 lakhs, which represents 62 per cent of the total malguzari assets. For the purposes of settlement the old parganas were broken up into the following groups:—Nagpur with 80 villages, Taksighat (92), Kalmeshwar (50), Urarwahi (40), Bori (60), Hingna (46), Korādih (67), Bazargaon-Kauras (46), and Kānholi (43). The assessment per acre in cultivation falls at R, 0-13-8, the highest in the four tashsits.

The railway stations of Nagpur, Mehdibag, Kamptee,

Miscellaneous ated within the tahvil, and three
new lines are under consideration from Nagpur. Nagpur,
Saoner and Kalmeshwar are municipalities, and Kamitee is
a cantonment Police Station-houses are situated at Nagpur
Bori, Kalmeshwar, Kamptee and Saoner,

Nagpur City.—(F Situation and area sixuation and provided for Nagpur Division and District, in a sixuation and a s

and of the civil station has of late years constantly increased and it is now about 10 square miles.

The modern town first gathered about the ancient fort of the Gond Rajas. A hundred years Population. ago it was a collection of small hamlets scattered over a fertile plain, but it has long been an overcrowded and spreading mass of habitation. In 1872 the population numbered 84,441, in 1881, 98,299, in 1891, 117,014 and in 1901, 127,734. Since last census the city has lost over 20,000 inhabitants from plague alone, but if we may judge from the spread of building and the demand for house accommodation, its present population is not less than 140,000. In 1901 there were 104,453 Hindus, 17,368 Muhammadans, 436 Pārsīs and 3794 Christians, of whom 1780 were Europeans and Eurasians. It is difficult to estimate the proportionate increase of the Hindu and Muhammadan populations, both of which have suffered severely from plague, but the Parsi colony has greatly increased owing to the development of the cotton industry and the opening of manganese mines, and the addition of the Berar Districts to the Central Provinces has added to the European and Eurasian communities.

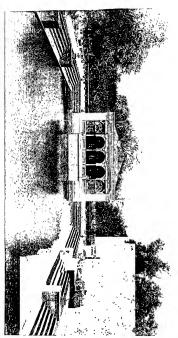
The present cits of Nagpur was founded at the beginning of the 18th century by the Gond Raja Bakht Buland It subsequentily became the capital of the Bhonslas, was sacked and burnt in 1765 and again partially burnt in 1811 by the Pindaris, but it grew with the growth of the Bhonsla kingdom and was considerably improved by the Rajas of that dynasty. In 1817 it witnessed the battles of Sitabaldi and Nagpur, which secured British influence in these territories, and in 1853 it lapsed with the kingdom to the Bittles Raj to become in 1861 the capital of the Central Provinces At the time of the Mutany there was but little disturbance in the city. A riot occurred in 1866 at the commencement of the famine, and there was another in 1869 when plague preventive measures

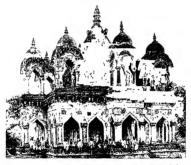
were first enforced, but both were easily suppressed. Since its assumption as British territory the history of the town has been one of peaceful growth, quickened by the advent of the Great Indian Peninsula Railway in 1867, retarded at times by famine, and in more recent years so greatly stimulated by the development of the cotton industry that five severe epidemics of plague have not stopped the advance

The traveller entering the city from the present cramped railway station, soon to be rebuilt The City on a much larger scale, passes first along the bank of the Juma Talao, a large rectangular lake built by the Bhonslas and improved in later years. The northern bank is occupied by the buildings of the Empress Mills, and on the southern bank behind the Nedham Park stand the Swadeshi Mills. Beyond this lake the old main street runs below the Juma Darwaza, a remnant of the city wall, and leads directly to the centre of the city Here stood the old Bhonsla palace, which was burnt down in 1864 Part of its site is occupied by a small modern palace building, and part by the Town Hall Opposite this is the new police Station-house, and close by is the daily market, for which new buildings are being planned. Beyond the Town Hall stands the old fort and palace of the Gond Rājās now partly demolished. To the south lies the Sakardara garden, the present residence of the Bhonsla Rājā of Deoi here no buildings of any importance, but an interesting menagerie is maintained and there is a fine natural amphitheatre where the townspeople assemble to witness wrestling and other sports. The main business street of the city is now the Hansapuri road which runs from west to east through its northern wards. On this stands the tahsil office, and at the eastern end, where the Bhandara road runs out is the site

of the Itwari bazai, or weekly Sunday market. This like most of the present sites and buildings, is now too small for the needs of the city Fifty years ago Nagpur could be described only as a mere huddle of habitations. It had no metalled roads or wide streets but only narrow lanes and paths of beaten clay which became bogs of mud in the autump, and it contained many unsightly and insanitary ponds and waste spaces There are still great areas of huddled huts and narrow lanes and some stagnant ponds and gravel pits, but wide new streets are being pushed further each year into the crowded areas and the waste land is being steadily reclaimed. Through the northern wards the line of the new Umrer-Chanda railway is being cut, which will connect the present railway station with another placed beside the Itwari bazar, and a contract has been given for the construction of electric tramways along the main streets. The water-supply from Ambajheri lake, first brought to the city in 1873 and since then from time to time enlarged, is now quite inadequate A large new reservoir is to be built in the high land to the north-west. The city has very fair natural drainage into the Nag river. Small local improvements are annually being made and a second comprehensive drainage scheme is now being formulated. The city has no great claim to picturesque beauty but when viewed from the higher lands the slopes of Sītābaldī hill form a fine background to the waters of the Juma lake, and the crowded lanes are so screened by the greenery of many trees that only the chimneys of the mills and factories reveal the presence of a city

The civil station, lying west and north of the railway and of Sitäbaldi hill, has a much better natural site. In Bhonsla times it was the garden suburb where the Rajās built the original Ambājheri and Telinkherī lakes and laid out their Telinkherī summer-house and the Mahārājbāg. These have been improved under British administration and in 1891 on a steep isolated hill to the north of Sitäbaldī the present Government





 ${\it Remove, Collo Derby}$  KASHIBAI TEMPLES SAKARDARA, NAGPUR

NACPUR CITY

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House was built. Beyond this inns a longer ridge on which stands the Roman Catholic Seminary and Retreat, a tall and ugly but solid building. Under these hills to the south lies the flat plain of the civil station, laid out on the usual Indian lines with wide roads and compounds, cricket and football fields, polo-grounds, a race-course and a golf-course The older part is a park of trees from which only the larger buildings show, the Roman Catholic Cathedral, the English Church, the Museum, the Club House, and the new Victoria Institute The new Secretariat Office building, not yet complete, will also be prominent, but this lies beyond the old civil station on a tract of land recently taken up by Government on which several enlarged new courts and offices have been or are heing built. Beyond these to the south-west several houses are being constructed for the superior officers of Government In this direction lies the old polo-ground, and on a fine site near the Telinkheri lake the building for the Central Provinces Club is being erected to overlook the race-course and the new polo-ground Much of this part of the plain is still bare of trees but several hundreds have been planted by Government and by the Municipality on the roads. When these and the plantations on Government House hill and Seminary hill are grown, the appearance of the station will be excellent To the north of the hills lies Takli, a third portion of the station It consists chiefly of high ground within easy reach of the railway and of the road to Kamptee. Several new bungalows have recently been built here by private individuals and houses are being constructed for the use of clerks Plague epidemics have tended to drive the ticher class of Indians out of their cramped city houses to suburban villas, and it seems probable that within a few years there will be much building extension from Täklı northwards towards Kamptee, the present garrison town, which is also an important centre of trade.

The municipality of Nagpur was first established in 1861 as a branch of the District adminis-The Municipality. tration. When the first Municipal Act was passed in 1873 the committee was reconstituted with a majority of members elected by the townspeople, and in 1883 the constitution was still further enfranchised In 1884 it was found necessary to form a special sub-committee for the administration of the civil station. This arrangement has been continued, the sub-committee having now practically independent powers. The municipal income, chiefly derived then as now from an octror tax, was in 1865 only Rs 1,26,100 and in 1882 Rs 1,50,100. In recent years its growth has been repeatedly checked by visitations of plague and the disorganisation of trade which these always cause, so that the present net income is not much more than four lakhs and is barely sufficient for the more pressing municipal needs. The taxation, however, is extremely light. Its net amount is only three lakhs, or about Rs 2-4-0 per head of population Reduced to the lowest common multiple this represents the wages of an unskilled labouier for five days,

Up to 1885 the conservancy arrangements were in the hands of the Police Department, but Municipal Undertakings. in that year they were taken over by the Municipality. They have been steadily improved, 7825 house latrines and 60 public latrines are now in use But further improvement on a considerable scale will be possible when a complete drainage scheme is adopted and when, on the institution of the electric tramway, residence can be more readily removed to the outskirts. In 1885 also a beginning was made in street-lighting. A total of 650 oil-lamps are now in use, but it is hoped that this department also will be improved by the electric installation. The Town Hall and its library were built in 1895 The former accommodates the municipal office, but for the octroi branch a new central office is now being built. It may here be noted that the





JUMA TALAO NAGPUR

regulation and improvement of the administration of the octroi tax has especially in late years, been one of the most important municipal undertakings. In 1901 a large cottonmarket was established near the railway station on land reclaimed from the waters of the Juma Talao Since then the committee has spent large sums on the widening of old streets and the building of new ones, and has taken up considerable areas of land in the south and north which are being let out for private house-building according to standard plans Three steam fire engines have been purchased and equipped, and telephonic communication is being installed But from the first the city's chief concern has been its water-supply. The Ambaiheri lake, which is the present reservous, was built by the Bhonslas more than a century ago, but not until 1873, when it was enlarged, was the water of the lake brought to the city in pipes, at a cost of four lakhs. This ian by gravitation only and in 1890 it was necessary to spend three lakhs more on an extension and on the pumping of water to the higher levels. Still later, at the cost of another lakh, the catchment area was fenced and a new main pipe laid. During the famine of 1899-1900 the tank was deepened at the cost of Government and the dam was raised at the charge of the municipality. In 1904-05 a new pumping engine was installed and a second main pipe laid. The catchment area of the reserviour is now 6% square miles and the water-spread 412 acres, but its supply is madequate even for the household needs of the city and civil station, and a scheme for the constituction of a second reservoir has been brought forward. This, lying in a valley to the north of the Ambajheri and Telinkheri lakes, will have a catchment area of 12 square miles and a water-spread of two square miles. It will not only supply the present growing needs of the householders but will facilitate the contemplated reform of the drainage and provide a supply of water for new industrial, enterprises, From the autumn of 1906 the committee has engaged energetically in plague preventive measures which have been temporarily successful. The future rapid growth of the city appears to depend on its ability to exclude serious plague enidemics and to raise the revenues to meet large expenditure on water-works, drainage, street-widening and lighting,

liade. Orange culti vation and handloom weaving

For more than a century Nagpur has been noted in India for its orange gardens and for the cotton and silk fabrics woven by its large Koshti population of handloom weavers Orange cultivation is still

extending and in spite of the competition of machine-woven cloth, local and imported, there are still some 5000 handloom weavers at work and many spinners and dyers. Since the advent of the railway Nagpur, rivalled only for a time by its neighbour Kamptee, has become the leading industrial and commercial town of the centre of India. It owes this position chiefly to its cotton trade

The Empress mills were opened in 1877 They include spinning, weaving, and dveing fac-Cotton Mills and Factones, use 1400 looms and 75,000 tories. ' spindles, and employ 4300 operatives. Their capital is 47 lakhs and their outlurn of yarn and cloth in 1904 was valued at 61 lakhs. The further extension of this great enterprise is conditioned by the water-supply of the city. In late years the supply of labour has been short but a scheme is in hand for the provision of model dwellings for the operatives and these are being attracted from other parts of India The Swadeshi mills, situated on the opposite side of the lake, were founded in 1892 with a capital of 15 lakhs. They have 180 looms and 16,500 spindles, employ 900 operatives, and produced in 1904 goods to the value of 14 lakhs. Much of the ginning and pressing of the local cotton is done by factories situated in the smaller towns of the District, but in Nagpur itself there are 20 ginning and pressing factories containing 287 gins. They have a combined capital of about 17 lakhs.

TELINKHERI TANK NAGPUR



In still more recent years the mining of manganese in the District and in neighbouring Dist-

Manganese mining and Railways

District and in neighbouring Districts has added to the trade of Nagpur At present most of the ore

is brought to Kamptee and exported thence, but a consulerable quantity from mines to the north-west comes into Nagpur city by road. Between Kamptee and the mines at Ramtek a new railway is nearing completion. From Nagpur a line has been surveyed to Saoner town. Beyond that point it is proposed that one line will run north to tap the mines and that two others will go to Itaisi and Amraoti. Meanwhile a narrow gauge line from Nagpur through Uniter to Chanda is under constitution.

There are in the city 11 printing presses from which are published one English and three Indian newspapers and a monthly compendium of the Central Provin-

ces Law Reports.

Apart from the special industries noted, the bulk of general trade has within ten years General trade very greatly increased. The chief branches of the supply trade are concerned with timber and firewood, kerosine oil, imported cloth, leather goods, foodstuff, tobacco, ærated waters, and ice The trade in wood is especially heavy The import of building timber is large, and it is accompanied by great activity in brick-making owing to the constant demand for new house building. The installations of oil in the neighbourhood of the railway station are now numerous, and the extension of the ordinary food-supply trade necessitates the extension of the sites for the daily and the weekly markets. The consumption of alcoholic liquor has in four years all but doubled, owing chiefly to the increased number of artisans and labourers and to the custom of cartmen bringing in cotton and manganese ore. The milk-supply trade has equally increased, but has been less carefully administered. There is a large ice factory

Vienuris the headquarters of the Administration of the Central Provinces and Berar and of Public Institutions the Provincial departments. It is Offices also the Divisional headquarters for a Commissioner, and a Divisional Judge A Deputy Post-Muster General, an Inspector of Schools, a Conservator of Forests, and two Executive Engineers, for Roads and Buildings and for Irrigation, the Deputy Compttoller of Post Offices for the Bombay cucle, and the Archdeacon of Nagpur also have their headquarters here. There are some twenty large court houses and offices. For almost all departments, owing to the development of the Central Provinces and the addition of the Beiar Districts, it has been necessary to erect new buildings The District Court house alone of the older buildings is important, its cost being 1 04 lakhs Of the new ones the principal is the Secretariat building, a stately quadrangular pile faced with black basalt and grey sandstone The new Secretariat building will cost nearly o Excluding this the cost of Government buildings is about 30 lakhs, to which rented buildings, principally the bungalows of officers, contribute 4 lakhs.

Besides these the chief Government institution are the Central Jail, one of the two Provincial lunatic asylums, and a leper asylum. The lunatic asylum, which is now being extended, occupies a fine site and has accommodation for 150 inmates. The jail lies south of the city. It is piobably the moet sanitary and industrious part of Nagpur. In it is housed the Government printing press, which has 30 piesses and prints or lithographs all the forms and registers used by the Administration. The outturn is approximately ten million sheets annually. The other pincipal industries of the jail are carpet-weaving and upholstering in cane.

The Department of Agriculture maintains a large experimental farm in the close neighbourhood of the civil station and under

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its management also are the Telinkheif gardens below the lake of that name and the Mahārājbag near the city. The latter is the puncipal public garden of Nāgpui. It contains a small zoological collection and an-aviary has recently been built. At the western end it is commanded by the new Victoria Memorial Technical Institute, an imposing building, in front of which stands a white marble statue of the late Queen Empress, iccently unwelled. Close to Sitabadi stands the Museum, which is filled chiefly with archieological iemains. Attached to if are gardens under municipal management. In the city itself there are, with the exception of the Rāja's garden at Sakaidarā, no recreation grounds of importance except the Nedham Park, iecently laid out on ground reclaimed by famine labour in 1900 from the Jumā Talao

Nagpur 18 the headquarters of a Roman Catholic diocese and has a Cathodral, a Convent, and is also to be enlarged as a Cathodral The English church is also to be enlarged as a Cathodral The United Free Church of Scotland maintains an important mission, and there is also a Methodist Church In the city there are many temples, old and new, but none are of exceptional importance Perhaps the most noteworthy Indian inligious institution is that of a Mohammadan sect established at Mehdibag This has also educational and industrial interests and is best known to European residents by its excellent shop in the city<sup>3</sup>.

The gainson town of Kamptee lies 10 miles to the north of Nagpur and the only regular force in the city itself is a small detachment of infantry occupying fort. Sitabaldi. There are also the headquarters of the Nagpur Volunteer Rifles and of the Bengal-Nagpur Railway Volunteers, which have five companies in Nagpur. The city police number 153 men of all ranks. Those at present are scattered in several posts, most of which are now to be removed. The force will then

<sup>1</sup> Sec para. 64.

be concentrated in four Station-houses, the central post being the Kotwali, beside the Town Hall, for which a spacious building is now nearing completion

Nagpur has two colleges which in their Arts and Science courses are affiliated with the Uni-Educational Institutions versity of Allahābād They are at present attended by 168 students The Morris Memorial College was established in 1885. If takes its name from Sir John Moriis who for many years was Chief Commissioner of the Central Provinces. For its foundation a considerable sum was subscribed by the people of the Nagpur and Chhattisgarh Divisions and it is supported also by giants from Government, from the municipality, and from the District Council of Nagpui The latest grant from Government is in aid of its Law Class, which is attended by 23 students. The present building of the college in the city is bailey adequate, but it has a hostel attached in which several students board The Hislop college was opened in 1884 as an affiliated college of Calcutta University, but in 1905 it was affiliated with Allahabad. It takes its name from the Rev. Stephen Hislop, the eminent geologist, who founded the Scotch mission in Nagpur The college is supported by subscriptions, by the funds of the United Free Church of Scotland, and by Government grants. It occupies handsome buildings near the western entrance to the city and a large hostel for the accommodation of 60 boarding students has recently been erected on the bank of the Juma Talao. There is also in the civil station a hostel for 30 Indian Christians. The Victoria Memorial Technical Institute, already spoken of, was opened by Sii Andrew Fraser in 1906 It provides accommodation for advanced science classes and for the Agricultural college, which is also provided with a hostel. But it is intended chiefly for the teaching of handicrafts to sons of the artisan classes. Among other special institutions there are the male and female normal schools for the training of teachers for rural schools. These are Government instiNAG RIVER 323

tutions and contain at present 80 students who receive stipends or scholarships. The number of schools is constantly increasing Besides the High schools and their branches there are at present four English-teaching middle schools and about 50 primary schools. The three High schools which are aided by Government have 412 pupils on their tolls These are the Neill City High school, connected with the Mouns college, the High school of the United Free Church Mission connected with the Hislop college, and the Patwardhan High school. Of the middle schools the most important is the Anjuman, and this is now to be extended by converting it into a High school and adding a hostel. The trading population consists largely of people from Northern India, and to meet their needs two new schools are being established for the teaching of Hindi Bengali is taught in one private school The St Francis de Sales' college and the Bishop's school provide High school education for European boys The former has a good industrial class European girls are taught at the St Joseph's convent school

The Mayo Hospital is the principal medical institution of Nagpur. It occupies several blocks Medical Institutions of buildings on open ground near the railway station, contains 84 beds, and has private wards and special accommodation for Europeans. Its operating 100m has recently been greatly improved. Immediately behind the Mayo buildings stand those of the Dufferin Hospital for women. This is under a fully qualified lady doctor and has accommodation for 35 indoor patients. Attached to it is a class for midwifery training. The Mure Memorial Hospital of the United Free Church Mission is also under a lady doctor. It occupies a fine site in the civil station near the Mahārājbāg, contains 30 beds, and does much dispensing work. There are two railway and two mill dispensaries and five public dispensaries, all largely attended.

Nag River,—A tributary of the Kanhān which rises in the hills to the west of Nagpur and flows in a serpentine course past Nagpur City, joining the main river at Saongi in the east of the District The river probably derives its name (Nag, a cobia) from its simuous course, and in turn gives a name to Nagpur city

Nanda-Gaimukh -A large agricultural village of the Kātol tahsīl, nine miles west by north of Saoner, and thirty miles from Nagpui. The population was 2389 in 1901 and 1s now probably over 2500. It possesses a large and progressive Mahar community, engaged partly in weaving coarse blankets (kambals) partly in agriculture Nandā has a pumary school and post office. An assessment for sanitary purposes was imposed in 1907. In early Pındârı times the inhabited site lay a mile or two to the south, at an open place on the Korlar river called Pandhri, and was frequently visited by these energetic robbers. An ascetic named Shaibhang had established his hermitage in what is now the village site, but was then dense forest. His shrine was under a large pipal tree from whose roots there flowed a stream of healing waters. At his invitation the harassed people of Pandhri migrated and settled round his fountain, and when the Pindaris tried to follow them up they were stricken with blindness and perished miserably in the forest. The legend suggests the former extent and denseness of the jungles in these parts, other traces are little enough now Subsequently a landowner, one Nagya Brähman, built a 'Gai-mukh ' and tank round the Sūdhu's spring, and pilgrims now come from long distances in the month of Kartik (October) to bathe in the pool and drink the waters.

Narkher Town,—An important agricultural town and cotton-growing centre, situated in 21 29 N, and 78 32 E. in the north-west corner of the Kätol tahsil, 45 miles from Nagpur and fifteen from Kätol. Its population was 8256 in 1891 and 7726 in 1901; it has increased since the census

<sup>&</sup>lt;sup>1</sup> When water issues from a rock or spring the head of a cow is carved and the water made to flow through it

and is now about 8000. The predominating caste are the Telis, who are chiefly engaged in growing and trading in cotton Then principal market used to be Amraoti, but now they deal more extensively with Katol and Nagpui has a large proportion of weavers and dvers also, and twents five goldsmiths' shops. A number of the Nagpur moneylending firms have established branches in Naukhei which is another indication of its prosperity. The town lies about three miles to the south of the Chhindwara hill, in flat and fertile country, and is surrounded by eich garden cultivation Its land revenue is the largest in the District, being Rs 6120 on an acreage of 3053, of which 80 per cent, is held in mälikmakbüsa right The Village Sanitation Act was extended to Naikhei in 1906, and the revenue in 1906-07 was Rs 2328. The town was once a municipality and the committee hope to regain their old dignity. It has a vernacular middle school which is the largest in the District with nearly 200 pupils, a police outpost, and a post office

The town is said to have been founded by the Manas, then a wallike caste, who made plundering expeditions into Berår and repelled the Pindairs at every encounter. Some ornaments and coins, largely of the Mughal period, were recently unearthed in the old tort and are supposed to have been some of their plunder. With the advent of Bittish fulle their activities were suppressed and they became a peaceful caste of cultivators. Few now remain in Narkhor.

Paradsinga —A fine village with many wells and gardens, inhabited chiefly by Malis. It is situated in the Jam valley, six miles west of Katol, the principal market for its gadden produce, and is forty-two miles from Nagpur Its population was 3192 in 1891; but fell to 2985 in 1901. It has a weekly bazar, held on Wednesdays, at which large quantities of turneric, oranges and sugarcane are sold among other garden produce. The village has a primary school and post office.

Parseoni —A large village in the Rāmtek tahsīl about 17 miles north of Nāgpur and two miles west of the Pench river, with a population of nearly 4000 persons. It contains 3 tanks and more than 200 acres are under betel-vine gardens. There is a trading quarter in the village and some moneylendors teside here. The village has a school and police outpost and it is intended to open a dispensary and to raise a sanitation cess. Some manganese mines are worked in the vicinity, and close to the village is the Bhiwagarh hill-fort. The proprietors are Kunbis.

Patansaongi -A large village in the Rämtek tashil, 15 miles north-west of Nagpur on the Chhindwara road site is near the confluence of the Koilar and Chandrabhaga streams, and when these overflow is in dauger of being flooded The population was 4932 in 1901, having increased by about 50 during the preceding decade. At next census (1911). Patansaongi, will probably have a population above 5000 persons and will rank as a town. There are the ruins of an old fort here, and it is related that in 1742 a battle took place between Wali Sha, the Gond usurper, and the legitimate queen, the widow of Chand Sultan, in which 12,000 persons were killed A troop of horse was stationed here up till the lapse of the Nagpur kingdom. There is a considerable hand-weaving industry and a number of Rangaris or dyers. The village has a vernacular middle school and a police outpost and a school for low-caste boys is maintained by the Scotch Free Church Mission of Nagpur There is a military encamping ground. The people are said to be quarielsome and litigious. A small cess is levied for samitary purposes and the proprietors are Kunbis

Pench River.—The Pench rises in the Motur jāgii of the Chhindwaia District and enters Nagpur among the hills north of Bhiwagarh. Its course in this District may be divided into two portions contrasting markedly in seeme and general character. The upper part is a mountain stream winding among forest-clad hills and emptying on to the plain country at the picturesque falls of Mahuli. The lower liver flows slowly through the 11ch but uninteresting country of the Parssoni

and Chācher groups and ends in the junction with the Kanhān, about three miles north-west of Kumptee Of the total length of the Pench, about one hundred miles he in Chhindwaia and thutty-seven in Nagpur

Ramtek tahsil - The Ramtek tahsil occupies the northein and noith-eastein portions of Descriptive the Nagpui District, from the test of which it is separated by the Kanhan and its tributary the Koilar. It lies between 21° 5' and 21° 44' N and 78' 55' and 70° 35' E It is bounded on the north by the Chhindwara and Seoni Districts, on the east by the Bhandaia District, on the west by the Katol tahsil and the Chhindwara District. and on the south by the Umrei tabsil. It covers an area of 1129 square miles, of which 343 are Government torest, constituting the east and west Pench reserves The tahsil is naturally divided into the northern country bordering the Satpuras, which is intersected by hills and jungles, and the southern country between the hills and the Kanhan, which is flat and open But an almost equally important division is made of east and west, the natural boundary being the liver Pench, which, flowing directly southwards from the Chhindwāra District, joins the Kanhān at Bīna of the Ramtek tahsīl, and Waregaon of the Nagpur tahsil It thus completely cuts the Ramtek tahsil into two portions. To the east of the Pench, he the Dongartal, Ramtek, and Tharsa parganas being the larger area, while to the west are situated the Bhiwagarh and Patansaongi parganas. To the east of the Pench the principal crops are wheat and rice and to the west juari and cotton. The tahsil includes the two poorest tracts in the District, but the southern portion on both sides of the Pench is closely cultivated, and is only second to the Waidhā valley in fertility

The population of the tahsil in 1881 was 147,351; in 1891
trose to 157,150, but fell to 156,565
n 1901, giving a net increase over
the twenty years of 6'3 per cent
The total density in 1901

tahsil. The Bengal-Nagpui Railway cuts across the southeasten corner, and has stations at Salwa, Thaisa and Khāt, A branch hie from Kamptee to Ramtek is approaching completion. Police Station-houses are situated at Ramtek and Maunda

Ramtek Town .- The headquarters town of the Ramtek tabsil, situated in 21°24' N and 70° Position and population 20' E , 21 miles north-east of Nagnur by road and 13 miles from Salwa station A branch and leads to Ramtek from Mansar on the Great Northern Road and a railway line on the broad-gauge is now in course of construction to Ramtek from Kamptee The population of the town in 1901 was 8732 as against 7584 in 1801. The town lies round the foot of a detached hill forming the western extremity of the small Ambagarh range. The name signifies 'The hill of Rama'. Older names are Sinduragiri 'The Vermilion Mount', and Tapogiri or 'The Hill of Penance', and both these occur in an inscription of the Lakshmana temple, dated in the 14th century. The stone of the hill when newly tractured appears almost of a blood-red colour when the sun is on it, and this effect is supposed to have been produced by the blood of the demon Hiranya Kashipu, slain here by Vishnu in his Naisinha oi Man-Lion incai nation

On the hill, standing about 500 feet above the town, are a number of temples which can be seen gleaming in the sunshine from a long distance. To the south and west sides the hill is protected by a lofty natural scarp, and on the noith it has a double line of defences. The inner one belongs to the citadel, and the outer, running below the citadel walls to the west, takes a sweep outwards and is carried across a narrow valley which leads down to the Ambala tank. It is continued along the edge of the south side of the hill facing the town of Rämtek. This outer fortification is now in ruins; it was of rude construction and is ascribed to the

SIDE VIEW OF AMBALA TANK, RAMTEK



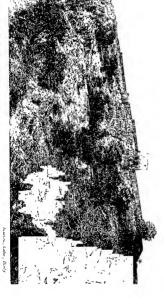
Gaolis. Within it was a considerable village, of which there are still traces to be seen. The citadel is at the western or highest extremity of the enclosure, having the chief temples at the apex of the angle. From the west end of the Ambala tank, a flight of steps leads up the hill, at the opposite end of which another flight descends to the town of Raintele All pilgrams, who go to worship at the town of Raintele All pilgrams, who go to worship at the temples, ascend the hill from the Ambala flight of steps. Nearly at the top of the steps to the right is a very old stone-faced tank with a Dhaimsalia or hostel. It is said that Narsinha, after killing the monster Hinarya Kashipu, threw away his cidgel on the hill with such force that it made the hole which now forms the tank. Clove by are two temples of Narsinha with huge images.

Opposite to these temples is one which is known as that of Dhumreshwar Mahadeo. About The coming of Rama this temple it is told that in primeval times a Sūdia named Shambuka lived at Rāmtek and practised austerities, a pierogative of the higher castes, with such effect that he caused the untimely death of a Brāhman's son, On this Rāma came and cut off his head. The Sadra was highly pleased at being so honoused in his death, and prayed to Rama that he would abide for ever at Ramtek, and that he, the Sadra, might also be worshipped there. So Rama took up his abode on the hill, and the Sudra was turned into a linga over which the temple of Dhumreshwar Mahadeo was built And as a sign that Rama has fulfilled his promise and abides here for ever it is said that from time to time a flame resembling the Morning Star plays round the pointed iron rod on the top of the temple. This phenomenon appears to occur in cloudy weather and to be the effect of an electric discharge. It is on account of the above exploit of Rama and the belief that he took up his residence here that Ramtek is invested with special sanctity

Further along the hill is a plain mosque said to have been built in memory of one of Aurang-

The citadel and temples zeb's courtiers From this a flight of steps leads up to the outer gate, a

massive building which with all the outer line of walls belonging to the citadel was built by Raghuii I. This gate is called Varah Darwaza, from a huge figure of the Varah or boar meanation of Vishnu which is placed just inside it. This figure is of great age and is referred to in the inscription as 'The Primeval Boar' Pilgrims slide under its belly and anyone who by reason of his bulk or other cause is not able to do so is considered as a sinner. In this court is a temple of Krishna belonging to the Manbhaos. The Singhpur gate in the second line of walls leads to the second court. and all this part of the citadel is much older than the outer walls. In the second court the Marathas had an arsenal and a few old guns are still left. A very fine gateway called the Bhairava Darwaza, leads to the third court or citadel, the walls and bastions of which were restored by the Marathas and are in good repair. In the court are the dwellings of temple-servants, who are said to number 160, this includes the dancing-girls, who acceive monthly stipends. Beyond this is the Gokul Daiwaza, through which strangers and the impure castes of Hindus are not admitted, leading into the last court. In the court is an arch on a platform, a half of which is dedicated to Ganpati, while the other half is claimed by the Kabii panthis as their seat Lakshman's temple stands in front and beyond it the great temple of Rama and Sita, while those of various other deities are arranged round the sides. Rāma's and Lakshman's temples have the outer door-frames plated with brass and the inner with silver. The idols are of black marble and are said to have been found in the Dudhāla tank after the original ones had been mutilated by a Muhammadan king. The temples are in the mediæval Brähmanic style, and the entrance-court to the shrine is in both of them supported by eight massive pillars. There is





an inscription in Lakshman's temple, apparently engiaved after their construction, and this shows that they are at any rate more than 600 years old

Between the citadel and the traveller's bingalow are the nums of a small shim with a life-stand and a small shim with a life-stand incarnation. This is considered by archaeologists to be the oldest temple in Ramtek, it is known to the people as the Bhad Bahin temple. Down the hills a very old temple of Kalinka and some Jain temples of Shant Nath, whose image is about 18 feet long and has the sign of a deer. The temples are all modern, one of them, built about 50 years ago in the mediueval Brahmanic style, being covered with beautiful carvings

The Ambala tank, which is lined with stone revetments and steps throughout, has many The Ambala tank. temples on its banks, most of which are of modern construction Their appearance, however, is picturesque, and in the morning, when the sun is shining on the white temples, the view of the tank and hills is very beautiful Among the temples is one of the rare ones to the sun. The story of the tank is that there was once a Sūrvavansī Rāmut king named Amba who was a leper. He happened to come to the spot where the tank now is while hunting, and feeling thirsty he took water from a spring and washed his face and hands with it, when to his amazement he found that the marks of leptosy disappeared from his skin where the water had touched it. He, therefore, excavated the spring, and from it came up the waters of Bhogāvatı or the Ganges of the nether world For this reason, people throw the bones of the dead into the tank. whose water is as sacred as that of the Ganges. The town has about 27 tanks, several of which are held to be sacred.

A great religious fair is held at Rämtek on the last day of

The annual fair

Agrik (November), lasting for 15
days, and a small gathering in April.

The attendance at the fair is 60,000 or 70,000 persons, and on

the principal day a yellow silk cloth called Pitambai is burnt at the top of Raim's temple in commenciation of the burning of the demon Tripmasur whom Siva slew A considerable amount of traffic ne cloth and utensils takes place, and in 1905 as many as 43,000 bullock-carts and 14,000 hoises are said to have been brought to the fair. The sales of produce are estimated at a lakh of rupees and the temples realise some Rs 2000

Ramtek is celebrated for its betel-leaf, and about 450 acres are devoted to the cultivation of the Ramtek town The leaf produced here is considered a delicacy and is exported to Poona and Bombay There are two sets of gardens known as the Manikial and the Mathurāsāgai. The town has not much trade, but about 50 mālguzārs of neighbouring villages reside here. It has a somewhat dirty and disreputable appearance for which the crowds of monkeys, who break up the tiled roofs unmolested, are partly responsible. Rämtek was created a municipality in 1867, and the average municipal receipts for the decade ending 1901 were Rs. 8100 In 1905-06 they had risen to Rs. 13,000, of which Rs 9000 were derived from octros The completion of the railway and manganese mines in the vicinity are likely to increase the importance of Ramtek. A large irrigation reservoir is also in course of construction in the vicinity, a dam being thrown across a gorge of the Sur river at an estimated cost of about Rs. 13 lakhs. The local institutions comprise an English middle school with about 70 pupils, Urdū and Marāthī primary schools, a girls' school and a mission boys' school, a dispensary, police Stationhouse and combined post and telegraph offices, On the temple hill is situated a dak bungalow, to reach which entails a climb of a mile and-a-half from the town. This is well repaid, however, by its excellent situation and the emovment of the cool and fresh air on the hill. From the walls of the citadel, a beautiful view of the surrounding country is obtained. Rämtek is owned by a respectable Brähman family.

Ridhora —A flourshing village on the Jain river, four mides south of Kätol. Its population was 2324 in 1904, chiefly of Kunbis. The proprietary family were originally Marathas, but some Kunbis have acquired shares, and one has recently been appointed lambadda proprietor. Since then factions have arisen and the village is now notonicus for the bitterness of its quariels. The village grows fine cotton and juai crops, and its oranges are of exceptional quality. It has a weekly Sunday market. Ridhora has one ginning factory, belonging to a Marwari finn of Hinganghat, and a primary school with 68 pupils.

Saoner —A considerable town lying on the Kollai in ei, twenty-thie emiles to the north-west of Nagpur at the junction of the Chhindwara and Itars roads, situated in 2°23' N and 78°55' E. The country to the north and west rises to the Satpura hills but in the neighbourhood of the town and to the south and east the land is exceptionally feitile. Orders have recently been issued for the formation of a fifth taihsil in the Nagpur District. This will be probably the inchest of the five, with Saoner as its headquarters town. In 1891 the population was 5555. Most of these are shop-keepers, mill-hands, weavers and dyes.

Saoner is said to be mentioned in the Jammin Ashwamedh under the name of Salaswatpur, and there are many legends connected with it. Of the temples the more ancient are those to Ganpati and Mahadeo at the neighbouring village of Adasa, which hill is said to have been one of the gates of a great ancient city.

There are also remains of a large stone fort with corner towers built for protection against the habitual raids of the Pindaris.

Saoner was a town of importance under the Bhonsla dynasty and has been a municipality since 1862. The oction tax was abolished in 1976, and since then the municipal income has been small, but during the recent years of cotton prosperity it has been expanded to Rs, 9000, which is derived chiefly from a house-tax, a small conservancy cess, bazar dues, cotton-maket dues and -cattle registration fees. Until very recent years lack of funds served to discourage municipal enterpiase. Only the schools were maintained and some sanitation offected. But quite lately an excellent cotton-market has been constructed. It is nearly four acres in extent, is well fenced, and has a weighing machine and two wells. Near it land has been acquired by the town, and on this substantial dwellings and shops are being erected by private lessees.

Trade. ordinary cotton cloths, and some of the ted dye is still produced, for which the town was at one time noted. A large weekly market is held on Fridays, at which the ordinary attendance is about 10,000. This is chiefly a cloth and cattle bazar. In

market is held on Fridays, at which the ordinary attendance is about 10,000. This is chiefly a cloth and cattle bazar. In the open season from two to three hundred cattle are sold weekly. But Saonet like Katol now depends chiefly on its trade in

raw cotton. There are four ginning factories at work, two of which have presses. On the west Katol town is a successful rival, and most of the cotton grown south of Saoner goes directly to the city. But a railway between Nagpur and Saoner is projected and if from that point it is continued in three directions to Amiaoti, Itarsi and Chhindwara, it is practically certain that the trade of Saoner will develop very rapidly.

The Saoner school, one of the largest in the District, includes an English middle school with 200. The Scotch Free Church Mission maintains a school which is attended by thirty pupils of the poore classes. This Mission has also an excellent dispensary,

A Government dispensity has been recently started, and it is at present housed in the sarai

But many schemes of reform and expansion are in hand Sites have been selected in the new town for such Government buildings as the tabsi office, a dike bungalow, and a new police Station-house From subscriptions and donations a large new building is to be provided for the middle school and for the hospital, and a town hall is to be built.

Satpura Hills .- Nagpur contains no part of the Satpura plateau, but it is bounded on the north by the Saipura Districts of Chhindwara and Seoni. The lowlying hills on the western half of the border, from Berar to the Kanhan, are merely the foot hills of the great range, and form a step to the higher level of the Mohgaon country in Chhindwara, which has to be crossed before the ascent of the Satputa plateau proper can be made. These hills have to a large extent been denuded of their vegetation and are mostly bare and uninteresting. From the Kanhan to the Pench the hills belong to the Sătpură range propei and the ascent to the Khamārpāni plateau of Chhindwara, which is a promontory of the Satpura tableland, is made a few miles this side of the Nagpur border Along this length the hills are well-wooded and picturesque, and there is some striking scenery on the Pench river. It is in this part of the range that the ruins of the old Gond fort of Bhiwagarh are situated East of the Pench the hills are again more irregular, and gradually recede, and the Satpura plateau in Seoni is ascended by the Koraighat some 12 miles beyond the northern frontier of this District. East of the Great Northern Road to Seoni and Jubbulpore only small hills are found, until the Bawanthari river, which here divides the District from Bhandara, is reached.

It is on and among these hill ranges east of the Kanhān and as far as the Bawanthari that the only large block of Government forest in the District is situated, and cultivated villages are scattered thinly here and there in valleys, or on the banks of the three rivers mentioned. They are, however, more numerous and compact in the country lying on either side of the Sconi toad, known as the Dongartall tract. This country is very pleasing and well-wooded, open glades alternating with patches of forest and cleanings of cultivation. Mahua trees and tanks abound and the Gond villages, with their clean little streets and near back gardens, have a far more picturesque appearance than the monotonous mud walls of the more imposing houses in the rich villages of the plan country.

Sawargaon .- A large village in the Katol tahsil, about ten miles north of Katol and thirty-six miles from Nagpur, The population was 3284 in 1901, as against 3534 in 1891, and is not increasing. The people are mainly agricultural, but there is a small dyeing industry. A sanitation fund has been in existence for some years, but village sanitation in Sawargaon is rendered unusually difficult by the watercourses which enclose the village on all sides. The villagers desire to have public latrines erected, and with a higher assessment and careful management of the fund they ought to be able to build suitable structures in a few years. There is a bi-weekly market, held on Mondays and Thursdays, and the village has a primary school with 95 pupils, a post office, and a police outpost about to be abolished A small temple to Mahābir stands in the middle of the village. It is built of a fine compact yellow clay, obtained locally, and its carved panels and scrolls are of exceptionally clean workmanship and design. There are also the remains of a mud fort, built as a protection against the Pindaiis.

Sirst.—A village in the Umrer tabsil about 17 miles southwest of Umret on the Wardhā border near Girar. The population was about 2100 in 1901, having declined from 2400 in 1891. The village lies in the valley of a large stream flowing into the Nand river. There is a weaving industry which is now on the decline and a few years ago the thatched houses were constantly being burnt down. The wildage is large and straggling and has a poor appearance. The water-supply is also deficient. The name is derived from the suris tree (Albasia Lebbel,) which grows abundantly in the vicinity. Sirsi has a vernacular middle school and a police outpost which will be converted into a Station-house, it is proposed to issue a sanitation cess. The proprietor is a Maratha Brahman widow.

Sur River .- A river which rises in the hills west of the Seoni road and following a most erratic course, cuts its way through a narrow goige in the Ramtek lange, and flows eastward part the town of Aroli and Kodamendhi into Bhandara, where it joins the Wainganga The Sar is remarkable for the shallowness of its bed, the level character of the land immediately on its margin, and the feitile properties of this land in producing sugarcane and garden crops. But its chief importance now is derived from a very notable irrigation scheme for which it has been selected. This consists of a large reservoir close to Ramtek, and twentysix miles north-east of Nagpui. It is estimated to cost 13 lakhs and will submerge over eight square miles of land, on which six villages are situated. The total catchment area will be eighty-two square miles, the water-supply from which is calculated to afford irrigation to sixty square miles of cultivated land in years of drought. The main dam will be across the gorge of the Sur river in the Ramtek hills

Takalghat—A large village in the Nagpur tahsil, 19 miles south-west of Nagpur, and four miles from Bori station, situated on the Kiishnä river. The population increased to nearly 2000 in 1901 from 1450 in 1891. The old southein road passes through the village and a good track connects it with Bori. Near the village are a number of mounds and rough stone circles covering five acres, from which have been dug fragments of pottery, flint arrow-heads and ironware, evidently of great antiquity. The village has a primary school and has been partitioned into four shares, the largest being owned by a Kunbi.

Umrer Tahsil —The Umrer Tahsil occupies the central and south-eastein portions of the District, lying between 20<sup>5</sup>35′ and 21°11′ N, and 78°50′ and 79°40′ E. In shape it is a rough parallelogram —The only notable geographical feature of the tahsil is the broad belt of hills, a continuation of the Kondhali hills of the Katol tahsil and the Kelihan hills of the Nagpur tahsil which run from north-west to south-east into the Chanda District. The rest of the tahsil is a broad undulating plain traversed here and there by broken ranges of hills and cut up by several rivers. Its area is 1040 square miles, of which 72 are Government forest.

The population of the tahsil in 1881 was 134,061; it'rose to 149,350 in 1891, but fell to 136,476 Population in 1901, showing a net increase over the twenty years of less than 3 per cent. The total density is 131 persons per square mile and the ruial density 116, both figures being the lowest in the four tabsils. Umrer tabs?! contains only one town. Umrer itself, with a population of 15,042, the third largest town in the District. It possesses seven large villages with populations of over 2000, wherein it is surpassed only by the Katol tahsil, and five villages with a population of between 1000 and 2000. Of its 678 revenue mauzas only 449 are inhabited, an unusually low proportion, As far as the composition of soils goes Umrei is the most favoured of the four tahsils. It Agriculture.

has a pei cent. kāli, 74 morand, az khardi, and only about one pei cent. of bardi and retirn soils. Four-fifths of its land is capable of producing wheat Its rainfall too is usually in excess of the District average. Nevertheless for reasons never fully explained the Umrer tahsil is the most backward in the District and always suffers most in bad seasons. The explanation may lie in the unusually large number of streams and nullahs which cit up the surface of the plain in all directions and render the drainage undesirably rapid and complete in an area devoted largely to

nce and rabi crops The total area of the tabil at last settlement was 618,000 acres, of which 433,000 were occupied and 340,000 were under cultivation. The remaining 30 per cent, of unoccupied area consists of two-thirds forest and grass and one-third unculturable land. The crop statistics site settlement are as follows:—

		Total			To	Total area under	der		
Year		area	Rice.	Cotton	Juär	Tar	Wheat	Ę	Linseed
1896 97	:	293,916	16,668	8,886	41,787	13,657	87,087	26,378	17.573
86 2681	;	314,782	16,795	691-6	53,004	15,570	21,101	15,407	33,387
··· 66-g6g1	•	302,449	17,365	8,684	39,923	12,265	98,436	840,21	+1,373
. 899-1900	:	290.907	7,745	10,353	59,137	18,116	52,211	33,479	27,028
10-0061	:	325,228	12,883	28,380	71,989	21,763	51,058	26,898	25,550
1901-02	:	333,858	15,722	22,225	70,428	16,776	87,499	+,039	37,442
60 2061	•	342,452	10,142	39,569	77,094	20,313	75,094	23,218	30,871
+0.5061	ī	347,638	12,312	25,692	58.524	15.972	86,678	17,977	35,946
1904-05	:	354,780	609,6	69,124	63,141	18,683	266'06	14,307	24.897
1905-06	•	361,911	889'6	817,26	54,289	049,61	90,798	6,309	30.536
40 906	:	361,141	11,313	65,073	52,022	16,350	100,538	7,304	43,103

The area under rabi crops has fallen considerably since settlement, as it has in the other tabsils, but still occupies considerably more than half the total cultivated area.

The land-ievenue demand before the last settlement was Rs 178 lakhs, and was raised at settlement to Rs. 246 lakhs, which absorbed 60 per cent, of the total mälguzāri assets. The land ievenue per acre works out at R.0-11-6, the lowest rate of the four tahsils. The following groups were formed at settlement.—Waroda (with 36 villages), Belā (28), Titur (31), Jaoli (56), and Sirsi (81), all of which are wheat attent, Kuhī (62.), Mandhāl (46), Veltur (78), and Umrer (69), in which both wheat and rice are grown, Bhiwāpur (54), a lice tract; and Makaudhoki (77) and Chimnājhari (33), which are jungly and hilly groups.

Umrer town is the only municipality in the talist, and contains the only police Station-house.

The communications of the talist are

poor at present, but a narrow-gauge railway from Nagpui to Umrer is under construction by the Bengal-Nagpur Railway Company, and is nearing completion. The tahisli has three metalled roads, from Umrer to Bori (the nearest station on the Great Indian Peninsula Railway), from Nagpur to Umrer; and from Umrer to Malin the Chânda District.

Umrer Town.—The headquarters town of the Umrer tahsil, stuated in 20° 52′ N and 79°20′ E., ag miles south-east of Nagpur on the metalled road to Mol and Chanda, The town hes on the high plain forming the watershed of the Amb and Mahru livers, and the fields he between the town and the latter river. It contains a Maräthä fort partially rolined, and inside it a temple with walls 17 feet thick, which was dedicated to Siva but is now deserted. The temple shows the influence of Muhammadan style and cannot therefore be very old. The fout is supposed to have been built by Raja Karan Sha of the Chanda Gond dynasty in the 16th century. The population in the last four years

of census was as follows:—1872, 11,394; 1881, 14,247, 1891, 15,180, 1901, 15,943. Unner is the 17th town in the combined Provinces in size. Its wealth has much increased in the last thirty years, and the Koshli weavers have collected in it from the neighbouring towns and villages, and are on the whole a thriving community. The staple industry of the town is the weaving of cotton cloths with silk borders by hand. White loin-cloths with led boilers are generally woven, the thread being dyed with lac. About 10,000 persons are dependent on the industry and it is estimated that the value of the exports of silk-botdered cotton goods is as much as two lakits a year. No octronis charged on the import of taw silk. The manufacture of dhotis has cieated a small subsidiary industry of silk-dyeing, which is carried on by Patwis. There is also a considerable community of Felis or oil-pressers.

Umiet was created a municipality in 1867 and the average annual receipts and expenditure for the decade ending 1901 were Rs. 17,400. In 1905-06 the receipts amounted to Rs 21,000, of which nearly Rs. 13,000 were derived from octro: Umier has an English middle school with 50 pupils in 1904-05, primary schools for boys and girls, a private Urdu school and a dispensary. There is a police Station-house and an inspection bungalow has been elected. A town hall was built in 1896 at a cost of Rs. 2500 A cattle-market is held on Sundays, at which sales are registered, the receipts in 1905-06 being Rs 250 There are several urigation tanks, and betel-vine and garden crops are grown. The village is owned by M1 Malak of the Mehdibag community of Nagput, but the Deshmukh lands are held separately, and the betel-vine gardens are owned by the community of Barais.

Veltur —A large village in the north-east of the Umrer tahsti, lying close to the Bhandara border and about 20 miles from Umier. The population was 2167 in 1901, and piactify the same in 1891 The village has a piimary school, a post office and a police outpost, and a small cess is taised for

sanitation. According to tradition Veltur was founded by a man of the Mahar caste, but the present proprietor is a Kalar

Wainganga River.—The Willinganga only forms the boundary between the Umier tahsil and Bhandara for a short distance, but through its tributaries the Pench, Kanhān and others it receives the dramage of about two-thirds of Nagpur District. Near Veltur the beautiful hills of Katghai Ambhora malk the junction of the Amb with the Wainganga. These hills are sacred and the view from their summit, disclosing a fertile country studded with tanks and groves, is a striking one. The lange is continued across the river in the Bhandara District and the islands of took in mid-stream show how at some remote time the great liver must have burst through the rocky barrier which blocked its way.

Wakori.—A large village in the Rämtek tabsil, three mules from Khāpa on the road to Patānsaongi and on the Kanhān ivet. The population was about 2500 in 1501 and had declined by more than 200 in the preceding decade. Wild plums of good quality are grown in the village A large number of Koshtis reside here and women's 40/5 or body-cloths are woven, while the shine of a Koshti saint in Wakori is held in great veneration locally. The village has a school and belongs to a Brāhman proprietor

Wardha river—An important river of the Province, giving its name to the Wardha District. In Nagpui the Wardha diams only a very small tract of land, consisting of the fertile Amner pargana, in the extreme north-west of the Kātol tahsil. A description of the river is given in the volume on the Wardha District.

Wathora —A small village in the Katol tahsil, 20 miles north-west of Nagpur, and on the Chandrabhäga stream. It contains some of the circles of stones which are known to the people as the encampments of the Gaolis They say that some centuries ago a Gaoli leng reigned over the tract between the Goddavari and the Nerbudda. His people wandered from place to place with their cattle, halting where fodder

was plentiful and seeking better pastures when they telt a scarcity impending. The stone circles are supposed to have been their encampments, but what purpose they could have served is not apparent.

Wunna River—A river which takes its source near the hill of Mahadagarh, among the outlying spurs of the Pilkāpā range, and flows along the northein base of the Kaunas plateau as fan as Hingnā, iz miles from Nāgpur, it then takes a southein course through Gungano to Borī, where it is crossed by the bridge of the Great Indian Pennsula Railway Continuing a southern direction as far as the village of Rudhorā, it bends sharply westwards, and passing the town of Belā, leaves the District at Ashtā, passing into the Waidhā District, on the boddes of which it joins the Waidhā Inver. Its total length is 88 miles.